

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P245950

Luminaire Tested: **LD8B40D010 ER8B409727 8LBSW0B**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245950
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13958)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B40D010 ER8B409727 8LBSW0B
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH SPECULAR BLACK TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2341.0 lumens
Efficiency: N/A
Efficacy: 57.2 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

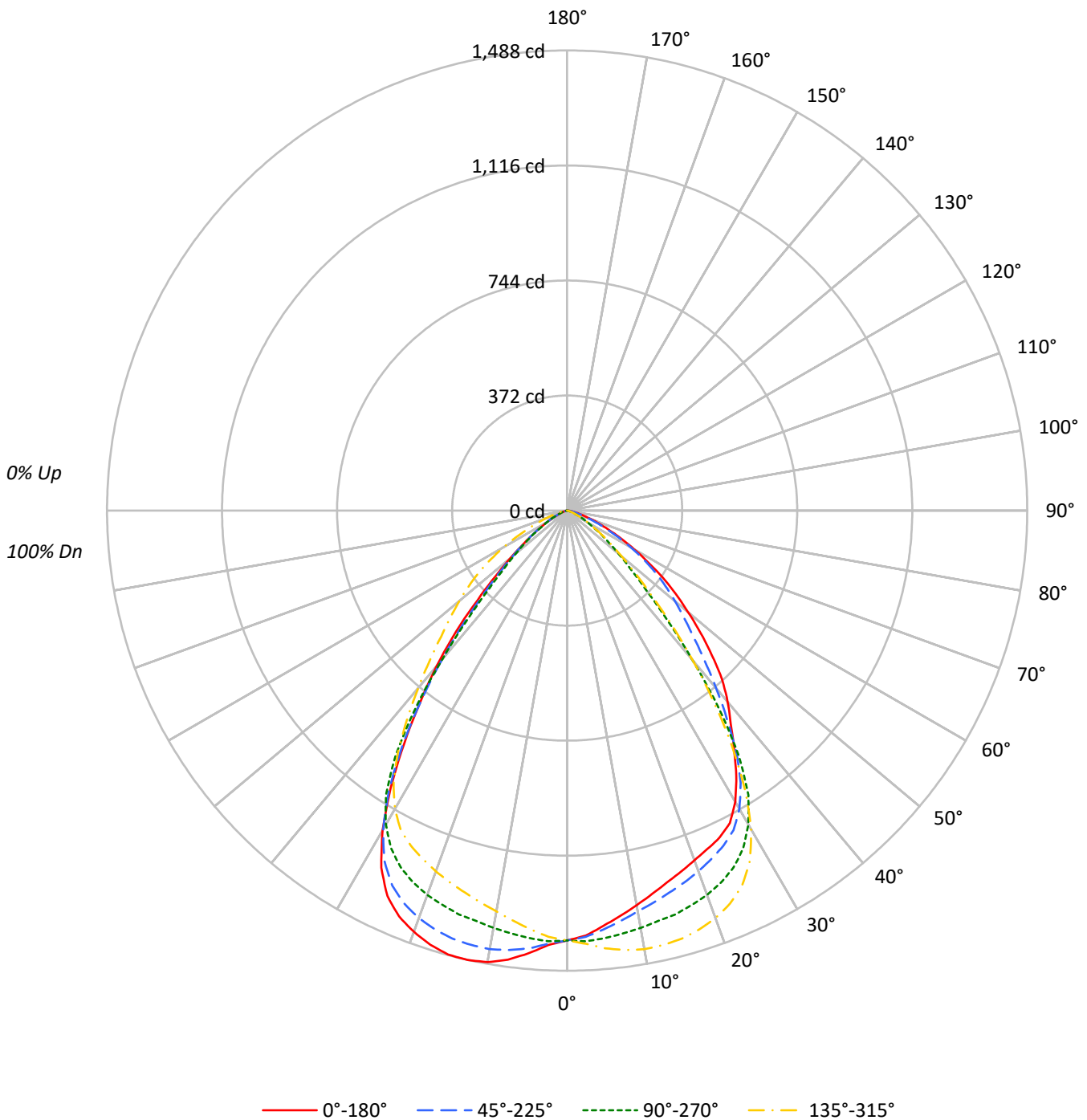
Input Watts (W): 40.9
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	109	106	103	109	106	104	101	102	100	98	99	97	95	95	94	92	90
2	105	99	94	89	102	97	92	88	93	90	86	90	87	84	87	85	83	81
3	98	90	83	78	95	88	82	78	85	80	76	83	79	75	80	77	74	72
4	91	82	75	70	89	80	74	69	78	73	68	76	71	67	74	70	67	65
5	85	75	68	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58
6	80	69	61	56	78	68	61	56	66	60	55	65	59	55	63	58	55	53
7	75	63	56	51	73	63	56	51	61	55	50	60	54	50	59	54	50	48
8	70	59	51	46	69	58	51	46	57	50	46	56	50	46	55	49	46	44
9	66	54	47	42	65	54	47	42	53	47	42	52	46	42	51	46	42	40
10	62	51	44	39	61	50	44	39	49	43	39	48	43	39	48	42	39	37

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.3	5.7
10°-20°	383.1	16.4
20°-30°	580.0	24.8
30°-40°	581.3	24.8
40°-50°	365.1	15.6
50°-60°	194.5	8.3
60°-70°	80.0	3.4
70°-80°	21.1	0.9
80°-90°	3.6	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°	1095.4	46.8
0°-40°	1676.7	71.6
0°-60°	2236.3	95.5
0°-90°	2341.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2341.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1390	1390	1390	1390	1390	
5°	1348	1388	1437	1388	1348	127
15°	1245	1352	1486	1352	1245	352
25°	1166	1273	1376	1273	1166	535
35°	940	967	918	967	940	589
45°	662	354	410	354	662	509
55°	377	131	138	131	377	336
65°	150	40	37	40	150	156
75°	42	8	7	8	42	48
85°	9	0	1	0	9	10
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1375.5	1374.2	1373.5	1374.9	1375.5	1378.2	1377.6	1378.9	1378.9	1379.6	1381.0
5°	1347.7	1347.0	1347.7	1347.7	1350.4	1353.1	1352.5	1354.5	1355.8	1359.2	1360.6
7.5°	1321.9	1321.9	1321.2	1323.9	1325.3	1329.4	1328.7	1332.1	1334.1	1337.5	1342.3
10°	1295.5	1295.5	1296.1	1298.2	1298.9	1304.9	1304.9	1309.7	1312.4	1315.8	1321.9
12.5°	1269.7	1269.7	1273.7	1272.4	1275.1	1279.8	1281.9	1286.6	1290.7	1297.5	1303.6
15°	1245.2	1245.2	1246.6	1250.0	1252.0	1258.1	1261.5	1267.0	1271.7	1278.5	1287.3
17.5°	1224.2	1223.5	1224.2	1228.3	1232.4	1237.8	1240.5	1247.3	1252.0	1260.8	1269.0
20°	1203.2	1204.5	1204.5	1207.9	1210.6	1217.4	1220.1	1227.6	1233.0	1241.2	1250.7
22.5°	1184.8	1184.2	1184.2	1188.9	1191.0	1197.0	1199.8	1206.5	1212.7	1219.4	1228.3
25°	1166.5	1165.1	1167.9	1168.6	1169.9	1176.7	1178.7	1183.5	1189.6	1195.7	1204.5
27.5°	1139.4	1138.0	1138.7	1141.4	1143.4	1148.9	1150.2	1155.0	1159.7	1165.1	1172.6
30°	1087.1	1085.8	1085.1	1089.8	1091.9	1095.9	1098.0	1106.1	1107.5	1113.6	1119.0
32.5°	1017.9	1017.2	1018.6	1022.6	1024.7	1030.1	1032.8	1037.6	1041.0	1044.4	1049.8
35°	940.5	939.2	940.5	944.6	944.6	949.4	951.4	953.4	952.8	953.4	952.1
37.5°	868.6	867.9	868.6	870.6	868.6	870.6	868.6	864.5	857.1	848.9	840.8
40°	807.5	808.2	804.2	806.9	799.4	798.0	790.6	780.4	765.5	749.2	726.1
42.5°	742.4	740.4	737.7	739.0	732.9	728.1	715.9	703.0	684.0	656.9	629.1
45°	662.3	661.6	660.3	659.6	655.5	650.8	640.6	625.7	604.6	576.8	543.6
47.5°	584.3	582.2	582.2	582.9	578.2	577.5	569.3	556.5	538.1	511.0	476.4
50°	509.6	508.9	510.3	513.0	509.6	508.3	502.9	494.0	477.7	454.7	422.1
52.5°	442.4	441.8	443.1	446.5	445.2	446.5	441.1	434.3	423.4	401.0	372.6
55°	376.6	376.6	376.6	380.7	380.7	380.7	378.0	373.9	363.7	347.4	321.0
57.5°	308.1	308.8	312.8	313.5	312.8	314.2	313.5	309.4	302.7	291.1	270.8
60°	250.4	250.4	252.4	254.5	253.8	254.5	254.5	252.4	245.7	236.2	219.9
62.5°	198.1	200.2	198.8	200.2	202.9	200.2	198.8	197.5	192.7	186.6	173.0
65°	150.0	151.3	151.3	152.0	150.6	151.3	148.6	146.6	143.9	137.1	128.3
67.5°	114.0	114.0	114.0	114.0	113.3	112.6	112.0	109.9	105.2	102.5	93.0
70°	87.5	83.5	83.5	83.5	83.5	84.2	82.1	79.4	78.0	73.3	66.5
72.5°	58.3	59.7	58.3	58.3	57.0	57.7	55.0	53.6	52.3	49.6	45.5
75°	42.1	38.7	40.0	40.7	38.7	40.0	37.3	34.6	34.6	32.6	30.5
77.5°	27.1	26.5	27.1	27.8	27.1	26.5	25.1	23.7	23.7	23.1	21.0
80°	19.7	19.0	19.0	19.0	18.3	19.0	17.7	17.7	16.3	15.6	14.2
82.5°	12.9	12.9	12.2	12.9	12.2	12.9	10.9	10.9	10.9	10.2	8.8
85°	8.8	7.5	7.5	8.2	6.8	8.2	7.5	6.8	6.1	6.1	5.4
87.5°	4.1	4.7	4.1	4.7	4.1	4.1	4.7	4.1	4.1	2.7	2.7
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: P245950

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1383.0	1383.7	1383.7	1386.4	1387.7	1388.4	1388.4	1393.9	1391.8	1393.2	1394.5
5°	1363.3	1367.4	1368.7	1368.7	1376.2	1378.9	1381.6	1387.7	1388.4	1392.5	1397.2
7.5°	1344.3	1349.1	1351.8	1357.9	1362.6	1367.4	1375.5	1379.6	1383.7	1389.1	1395.2
10°	1326.0	1331.4	1336.8	1341.6	1349.1	1355.2	1360.6	1370.1	1374.9	1382.3	1390.4
12.5°	1308.4	1315.8	1320.6	1328.7	1336.8	1342.3	1350.4	1359.2	1366.7	1374.2	1383.7
15°	1292.7	1301.6	1307.0	1315.8	1324.6	1332.1	1340.9	1351.8	1357.2	1366.0	1374.9
17.5°	1275.8	1285.3	1292.1	1300.2	1311.1	1319.2	1326.7	1337.5	1344.3	1353.8	1364.0
20°	1258.1	1267.6	1275.8	1283.9	1294.8	1302.9	1311.7	1322.6	1330.1	1339.6	1347.7
22.5°	1237.1	1245.9	1254.7	1264.2	1275.1	1281.9	1292.1	1301.6	1309.7	1318.5	1326.7
25°	1210.0	1220.8	1227.6	1236.4	1245.2	1252.7	1263.6	1273.1	1279.8	1288.0	1295.5
27.5°	1178.1	1186.2	1191.6	1199.1	1207.9	1214.7	1222.8	1232.4	1239.1	1246.6	1252.0
30°	1123.8	1131.2	1136.0	1141.4	1150.2	1156.4	1163.1	1171.9	1176.7	1182.1	1186.9
32.5°	1052.5	1058.6	1061.3	1065.4	1071.5	1077.6	1083.1	1090.5	1092.6	1095.9	1095.9
35°	949.4	950.7	950.0	951.4	954.1	957.5	962.3	967.0	969.7	969.7	967.7
37.5°	828.6	820.4	811.6	804.8	802.8	801.4	804.2	806.2	808.9	810.2	806.9
40°	703.0	684.7	665.0	647.4	635.2	629.8	627.7	629.1	629.1	633.8	633.8
42.5°	595.1	566.6	537.5	511.0	493.3	479.8	473.7	473.7	474.3	477.7	479.8
45°	505.6	469.6	435.7	406.5	382.1	364.4	356.3	354.2	353.6	354.9	359.7
47.5°	437.0	399.7	364.4	328.5	302.7	285.0	277.6	274.8	272.1	274.8	275.5
50°	383.4	344.7	307.4	271.4	244.3	228.7	219.2	215.1	214.4	214.4	215.8
52.5°	334.5	298.6	261.3	224.6	196.1	181.2	172.4	170.3	167.6	170.3	170.3
55°	288.4	252.4	215.8	181.2	157.4	141.8	133.7	131.0	129.6	131.6	131.6
57.5°	238.2	207.6	173.7	142.5	118.8	107.9	101.8	98.4	97.7	99.1	97.7
60°	195.4	169.7	140.5	112.0	93.7	82.1	77.4	76.0	74.6	76.0	76.0
62.5°	154.7	133.0	109.2	87.5	71.9	63.8	58.3	58.3	57.7	57.7	58.3
65°	114.7	97.7	80.8	62.4	50.2	44.1	40.0	40.0	39.4	40.0	39.4
67.5°	83.5	71.9	58.3	45.5	36.0	32.6	29.9	27.8	29.2	27.8	27.1
70°	61.1	51.6	42.1	34.6	27.8	24.4	22.4	21.7	20.4	20.4	20.4
72.5°	40.7	34.6	28.5	22.4	18.3	14.9	14.2	12.9	11.5	12.2	13.6
75°	27.1	23.1	20.4	16.3	12.2	12.2	8.2	8.2	6.8	8.2	6.1
77.5°	19.0	15.6	12.2	10.2	8.2	7.5	5.4	5.4	4.7	4.7	4.7
80°	13.6	11.5	8.8	7.5	5.4	5.4	4.7	4.1	3.4	3.4	4.1
82.5°	8.2	6.1	6.1	5.4	3.4	2.7	2.0	2.7	1.4	1.4	1.4
85°	4.7	4.1	3.4	2.0	1.4	1.4	0.7	0.0	0.7	0.7	0.0
87.5°	2.7	1.4	1.4	0.7	0.0	0.7	0.7	0.0	0.0	0.0	1.4
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: P245950

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1397.9	1397.2	1398.6	1398.6	1402.7	1402.0	1404.0	1404.0	1402.7	1403.4	1406.1
5°	1402.7	1404.7	1408.8	1412.2	1418.3	1421.0	1424.4	1427.8	1428.5	1430.5	1432.5
7.5°	1402.7	1409.5	1414.2	1420.3	1428.5	1433.2	1440.7	1446.8	1449.5	1452.9	1457.0
10°	1399.9	1406.7	1415.6	1422.3	1432.5	1440.0	1447.5	1457.0	1461.0	1466.5	1471.9
12.5°	1394.5	1402.0	1411.5	1420.3	1431.8	1438.6	1448.1	1457.0	1463.1	1470.5	1476.6
15°	1386.4	1395.2	1404.0	1412.8	1425.1	1433.2	1442.0	1452.2	1458.3	1466.5	1471.9
17.5°	1373.5	1383.0	1391.1	1399.3	1410.8	1420.3	1428.5	1438.0	1444.1	1450.9	1458.3
20°	1357.9	1366.7	1375.5	1382.3	1393.9	1402.0	1410.8	1419.6	1424.4	1425.8	1437.3
22.5°	1338.2	1344.3	1351.1	1362.0	1368.7	1376.2	1384.4	1392.5	1397.2	1404.7	1408.8
25°	1305.6	1311.7	1319.2	1323.9	1332.1	1338.2	1346.3	1355.2	1357.9	1363.3	1367.4
27.5°	1260.2	1263.6	1267.0	1271.0	1275.8	1279.2	1283.9	1288.0	1290.7	1293.4	1296.1
30°	1188.2	1188.2	1188.2	1185.5	1187.6	1189.6	1190.3	1189.6	1189.6	1188.9	1188.9
32.5°	1093.2	1087.8	1081.7	1076.3	1074.2	1071.5	1070.2	1068.1	1064.7	1062.7	1063.4
35°	965.0	952.8	945.3	938.5	933.1	929.0	927.0	924.9	924.3	921.6	918.8
37.5°	804.8	796.0	790.6	786.5	781.8	777.7	778.3	779.0	781.1	779.7	780.4
40°	635.2	633.1	635.2	630.4	629.1	630.4	633.8	638.6	641.3	644.0	648.7
42.5°	483.2	486.5	491.3	491.3	493.3	496.1	500.1	507.6	511.7	516.4	521.9
45°	363.7	367.8	373.9	375.9	377.3	380.7	385.5	391.5	394.3	398.3	403.1
47.5°	280.3	283.0	286.4	289.8	293.1	294.5	299.3	299.3	302.7	305.4	306.7
50°	218.5	221.2	223.9	226.0	227.3	229.4	230.7	232.8	233.4	234.8	235.5
52.5°	171.0	174.4	174.4	175.7	177.8	179.8	179.2	179.8	180.5	180.5	182.5
55°	133.7	133.7	135.7	135.7	137.1	136.4	137.1	137.1	137.1	137.1	137.8
57.5°	99.7	100.4	102.5	101.1	100.4	101.8	100.4	101.8	101.1	102.5	100.4
60°	76.7	76.7	77.4	77.4	78.0	78.0	78.0	77.4	77.4	76.7	76.7
62.5°	57.7	58.3	59.0	58.3	58.3	58.3	57.7	57.7	57.0	56.3	56.3
65°	38.7	38.0	39.4	38.0	38.7	38.7	38.0	38.7	36.6	37.3	36.6
67.5°	27.8	27.1	26.5	27.1	26.5	25.8	25.8	26.5	27.1	25.1	25.1
70°	18.3	19.0	18.3	19.0	19.7	19.7	19.0	18.3	19.0	17.7	18.3
72.5°	11.5	11.5	11.5	11.5	11.5	12.2	12.2	12.2	10.9	10.9	10.2
75°	5.4	7.5	6.1	5.4	7.5	7.5	6.8	6.8	6.1	6.1	6.1
77.5°	5.4	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.4	4.1	3.4
80°	2.7	2.7	2.7	2.0	2.7	2.7	3.4	2.7	2.7	2.0	3.4
82.5°	1.4	1.4	1.4	0.0	0.7	1.4	1.4	0.7	1.4	1.4	0.7
85°	0.0	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	0.0	0.0	0.0	0.0	0.0	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



TEST NUMBER: P245950

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1405.4	1404.7	1405.4	1406.1	1405.4	1404.7	1405.4	1406.1	1403.4	1402.7	1404.0
5°	1435.3	1435.3	1436.6	1437.3	1436.6	1435.3	1435.3	1432.5	1430.5	1428.5	1427.8
7.5°	1461.0	1462.4	1463.7	1464.4	1463.7	1462.4	1461.0	1457.0	1452.9	1449.5	1446.8
10°	1476.6	1478.7	1481.4	1482.7	1481.4	1478.7	1476.6	1471.9	1466.5	1461.0	1457.0
12.5°	1483.4	1485.5	1488.9	1488.2	1488.9	1485.5	1483.4	1476.6	1470.5	1463.1	1457.0
15°	1478.7	1481.4	1484.8	1486.1	1484.8	1481.4	1478.7	1471.9	1466.5	1458.3	1452.2
17.5°	1463.7	1467.8	1469.9	1471.9	1469.9	1467.8	1463.7	1458.3	1450.9	1444.1	1438.0
20°	1443.4	1446.1	1448.8	1449.5	1448.8	1446.1	1443.4	1437.3	1425.8	1424.4	1419.6
22.5°	1414.2	1416.3	1422.3	1420.3	1422.3	1416.3	1414.2	1408.8	1404.7	1397.2	1392.5
25°	1372.1	1374.2	1374.9	1375.5	1374.9	1374.2	1372.1	1367.4	1363.3	1357.9	1355.2
27.5°	1299.5	1299.5	1300.9	1301.6	1300.9	1299.5	1299.5	1296.1	1293.4	1290.7	1288.0
30°	1189.6	1189.6	1189.6	1193.0	1189.6	1189.6	1189.6	1188.9	1188.9	1189.6	1189.6
32.5°	1062.7	1061.3	1060.0	1061.3	1060.0	1061.3	1062.7	1063.4	1062.7	1064.7	1068.1
35°	918.8	918.1	920.2	917.5	920.2	918.1	918.8	918.8	921.6	924.3	924.9
37.5°	781.1	779.7	782.4	779.7	782.4	779.7	781.1	780.4	779.7	781.1	779.0
40°	650.1	651.5	651.5	656.9	651.5	651.5	650.1	648.7	644.0	641.3	638.6
42.5°	524.6	528.6	527.3	531.3	527.3	528.6	524.6	521.9	516.4	511.7	507.6
45°	405.8	408.5	408.5	409.9	408.5	408.5	405.8	403.1	398.3	394.3	391.5
47.5°	311.5	311.5	311.5	312.2	311.5	311.5	311.5	306.7	305.4	302.7	299.3
50°	236.8	237.5	238.2	238.9	238.2	237.5	236.8	235.5	234.8	233.4	232.8
52.5°	181.9	182.5	181.2	182.5	181.2	182.5	181.9	182.5	180.5	180.5	179.8
55°	137.8	137.1	137.8	138.4	137.8	137.1	137.8	137.8	137.1	137.1	137.1
57.5°	101.1	99.7	99.7	99.7	99.7	99.7	101.1	100.4	102.5	101.1	101.8
60°	75.3	76.0	76.0	76.7	76.0	76.0	75.3	76.7	76.7	77.4	77.4
62.5°	55.6	57.7	56.3	57.7	56.3	57.7	55.6	56.3	56.3	57.0	57.7
65°	36.0	36.0	36.0	36.6	36.0	36.0	36.0	36.6	37.3	36.6	38.7
67.5°	24.4	25.1	26.5	25.8	26.5	25.1	24.4	25.1	25.1	27.1	26.5
70°	19.7	17.7	17.7	19.7	17.7	17.7	19.7	18.3	17.7	19.0	18.3
72.5°	11.5	10.2	11.5	11.5	11.5	10.2	11.5	10.2	10.9	10.9	12.2
75°	6.1	5.4	4.7	6.8	4.7	5.4	6.1	6.1	6.1	6.1	6.8
77.5°	4.1	3.4	4.7	4.7	4.7	3.4	4.1	3.4	4.1	3.4	4.1
80°	2.0	2.7	2.0	3.4	2.0	2.7	2.0	3.4	2.0	2.7	2.7
82.5°	0.7	1.4	1.4	1.4	1.4	1.4	0.7	0.7	1.4	1.4	0.7
85°	0.0	1.4	0.7	0.7	0.7	1.4	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.0	0.0	0.7	0.0	0.0	0.7	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



TEST NUMBER: P245950

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1404.0	1402.0	1402.7	1398.6	1398.6	1397.2	1397.9	1394.5	1393.2	1391.8	1393.9
5°	1424.4	1421.0	1418.3	1412.2	1408.8	1404.7	1402.7	1397.2	1392.5	1388.4	1387.7
7.5°	1440.7	1433.2	1428.5	1420.3	1414.2	1409.5	1402.7	1395.2	1389.1	1383.7	1379.6
10°	1447.5	1440.0	1432.5	1422.3	1415.6	1406.7	1399.9	1390.4	1382.3	1374.9	1370.1
12.5°	1448.1	1438.6	1431.8	1420.3	1411.5	1402.0	1394.5	1383.7	1374.2	1366.7	1359.2
15°	1442.0	1433.2	1425.1	1412.8	1404.0	1395.2	1386.4	1374.9	1366.0	1357.2	1351.8
17.5°	1428.5	1420.3	1410.8	1399.3	1391.1	1383.0	1373.5	1364.0	1353.8	1344.3	1337.5
20°	1410.8	1402.0	1393.9	1382.3	1375.5	1366.7	1357.9	1347.7	1339.6	1330.1	1322.6
22.5°	1384.4	1376.2	1368.7	1362.0	1351.1	1344.3	1338.2	1326.7	1318.5	1309.7	1301.6
25°	1346.3	1338.2	1332.1	1323.9	1319.2	1311.7	1305.6	1295.5	1288.0	1279.8	1273.1
27.5°	1283.9	1279.2	1275.8	1271.0	1267.0	1263.6	1260.2	1252.0	1246.6	1239.1	1232.4
30°	1190.3	1189.6	1187.6	1185.5	1188.2	1188.2	1188.2	1186.9	1182.1	1176.7	1171.9
32.5°	1070.2	1071.5	1074.2	1076.3	1081.7	1087.8	1093.2	1095.9	1095.9	1092.6	1090.5
35°	927.0	929.0	933.1	938.5	945.3	952.8	965.0	967.7	969.7	969.7	967.0
37.5°	778.3	777.7	781.8	786.5	790.6	796.0	804.8	806.9	810.2	808.9	806.2
40°	633.8	630.4	629.1	630.4	635.2	633.1	635.2	633.8	633.8	629.1	629.1
42.5°	500.1	496.1	493.3	491.3	491.3	486.5	483.2	479.8	477.7	474.3	473.7
45°	385.5	380.7	377.3	375.9	373.9	367.8	363.7	359.7	354.9	353.6	354.2
47.5°	299.3	294.5	293.1	289.8	286.4	283.0	280.3	275.5	274.8	272.1	274.8
50°	230.7	229.4	227.3	226.0	223.9	221.2	218.5	215.8	214.4	214.4	215.1
52.5°	179.2	179.8	177.8	175.7	174.4	174.4	171.0	170.3	170.3	167.6	170.3
55°	137.1	136.4	137.1	135.7	135.7	133.7	133.7	131.6	131.6	129.6	131.0
57.5°	100.4	101.8	100.4	101.1	102.5	100.4	99.7	97.7	99.1	97.7	98.4
60°	78.0	78.0	78.0	77.4	77.4	76.7	76.7	76.0	76.0	74.6	76.0
62.5°	57.7	58.3	58.3	58.3	59.0	58.3	57.7	58.3	57.7	57.7	58.3
65°	38.0	38.7	38.7	38.0	39.4	38.0	38.7	39.4	40.0	39.4	40.0
67.5°	25.8	25.8	26.5	27.1	26.5	27.1	27.8	27.1	27.8	29.2	27.8
70°	19.0	19.7	19.7	19.0	18.3	19.0	18.3	20.4	20.4	20.4	21.7
72.5°	12.2	12.2	11.5	11.5	11.5	11.5	11.5	13.6	12.2	11.5	12.9
75°	6.8	7.5	7.5	5.4	6.1	7.5	5.4	6.1	8.2	6.8	8.2
77.5°	4.1	4.1	4.1	4.1	4.1	4.1	5.4	4.7	4.7	4.7	5.4
80°	3.4	2.7	2.7	2.0	2.7	2.7	2.7	4.1	3.4	3.4	4.1
82.5°	1.4	1.4	0.7	0.0	1.4	1.4	1.4	1.4	1.4	1.4	2.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.7	0.7	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	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



TEST NUMBER: P245950

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1388.4	1388.4	1387.7	1386.4	1383.7	1383.7	1383.0	1381.0	1379.6	1378.9	1378.9
5°	1381.6	1378.9	1376.2	1368.7	1368.7	1367.4	1363.3	1360.6	1359.2	1355.8	1354.5
7.5°	1375.5	1367.4	1362.6	1357.9	1351.8	1349.1	1344.3	1342.3	1337.5	1334.1	1332.1
10°	1360.6	1355.2	1349.1	1341.6	1336.8	1331.4	1326.0	1321.9	1315.8	1312.4	1309.7
12.5°	1350.4	1342.3	1336.8	1328.7	1320.6	1315.8	1308.4	1303.6	1297.5	1290.7	1286.6
15°	1340.9	1332.1	1324.6	1315.8	1307.0	1301.6	1292.7	1287.3	1278.5	1271.7	1267.0
17.5°	1326.7	1319.2	1311.1	1300.2	1292.1	1285.3	1275.8	1269.0	1260.8	1252.0	1247.3
20°	1311.7	1302.9	1294.8	1283.9	1275.8	1267.6	1258.1	1250.7	1241.2	1233.0	1227.6
22.5°	1292.1	1281.9	1275.1	1264.2	1254.7	1245.9	1237.1	1228.3	1219.4	1212.7	1206.5
25°	1263.6	1252.7	1245.2	1236.4	1227.6	1220.8	1210.0	1204.5	1195.7	1189.6	1183.5
27.5°	1222.8	1214.7	1207.9	1199.1	1191.6	1186.2	1178.1	1172.6	1165.1	1159.7	1155.0
30°	1163.1	1156.4	1150.2	1141.4	1136.0	1131.2	1123.8	1119.0	1113.6	1107.5	1106.1
32.5°	1083.1	1077.6	1071.5	1065.4	1061.3	1058.6	1052.5	1049.8	1044.4	1041.0	1037.6
35°	962.3	957.5	954.1	951.4	950.0	950.7	949.4	952.1	953.4	952.8	953.4
37.5°	804.2	801.4	802.8	804.8	811.6	820.4	828.6	840.8	848.9	857.1	864.5
40°	627.7	629.8	635.2	647.4	665.0	684.7	703.0	726.1	749.2	765.5	780.4
42.5°	473.7	479.8	493.3	511.0	537.5	566.6	595.1	629.1	656.9	684.0	703.0
45°	356.3	364.4	382.1	406.5	435.7	469.6	505.6	543.6	576.8	604.6	625.7
47.5°	277.6	285.0	302.7	328.5	364.4	399.7	437.0	476.4	511.0	538.1	556.5
50°	219.2	228.7	244.3	271.4	307.4	344.7	383.4	422.1	454.7	477.7	494.0
52.5°	172.4	181.2	196.1	224.6	261.3	298.6	334.5	372.6	401.0	423.4	434.3
55°	133.7	141.8	157.4	181.2	215.8	252.4	288.4	321.0	347.4	363.7	373.9
57.5°	101.8	107.9	118.8	142.5	173.7	207.6	238.2	270.8	291.1	302.7	309.4
60°	77.4	82.1	93.7	112.0	140.5	169.7	195.4	219.9	236.2	245.7	252.4
62.5°	58.3	63.8	71.9	87.5	109.2	133.0	154.7	173.0	186.6	192.7	197.5
65°	40.0	44.1	50.2	62.4	80.8	97.7	114.7	128.3	137.1	143.9	146.6
67.5°	29.9	32.6	36.0	45.5	58.3	71.9	83.5	93.0	102.5	105.2	109.9
70°	22.4	24.4	27.8	34.6	42.1	51.6	61.1	66.5	73.3	78.0	79.4
72.5°	14.2	14.9	18.3	22.4	28.5	34.6	40.7	45.5	49.6	52.3	53.6
75°	8.2	12.2	12.2	16.3	20.4	23.1	27.1	30.5	32.6	34.6	34.6
77.5°	5.4	7.5	8.2	10.2	12.2	15.6	19.0	21.0	23.1	23.7	23.7
80°	4.7	5.4	5.4	7.5	8.8	11.5	13.6	14.2	15.6	16.3	17.7
82.5°	2.0	2.7	3.4	5.4	6.1	6.1	8.2	8.8	10.2	10.9	10.9
85°	0.7	1.4	1.4	2.0	3.4	4.1	4.7	5.4	6.1	6.1	6.8
87.5°	0.7	0.7	0.0	0.7	1.4	1.4	2.7	2.7	2.7	4.1	4.1
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: P245950

CATALOG NUMBER: LD8B40D010 ER8B409727 8LBSW0B

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8	1389.8
2.5°	1377.6	1378.2	1375.5	1374.9	1373.5	1374.2	1375.5
5°	1352.5	1353.1	1350.4	1347.7	1347.7	1347.0	1347.7
7.5°	1328.7	1329.4	1325.3	1323.9	1321.2	1321.9	1321.9
10°	1304.9	1304.9	1298.9	1298.2	1296.1	1295.5	1295.5
12.5°	1281.9	1279.8	1275.1	1272.4	1273.7	1269.7	1269.7
15°	1261.5	1258.1	1252.0	1250.0	1246.6	1245.2	1245.2
17.5°	1240.5	1237.8	1232.4	1228.3	1224.2	1223.5	1224.2
20°	1220.1	1217.4	1210.6	1207.9	1204.5	1204.5	1203.2
22.5°	1199.8	1197.0	1191.0	1188.9	1184.2	1184.2	1184.8
25°	1178.7	1176.7	1169.9	1168.6	1167.9	1165.1	1166.5
27.5°	1150.2	1148.9	1143.4	1141.4	1138.7	1138.0	1139.4
30°	1098.0	1095.9	1091.9	1089.8	1085.1	1085.8	1087.1
32.5°	1032.8	1030.1	1024.7	1022.6	1018.6	1017.2	1017.9
35°	951.4	949.4	944.6	944.6	940.5	939.2	940.5
37.5°	868.6	870.6	868.6	870.6	868.6	867.9	868.6
40°	790.6	798.0	799.4	806.9	804.2	808.2	807.5
42.5°	715.9	728.1	732.9	739.0	737.7	740.4	742.4
45°	640.6	650.8	655.5	659.6	660.3	661.6	662.3
47.5°	569.3	577.5	578.2	582.9	582.2	582.2	584.3
50°	502.9	508.3	509.6	513.0	510.3	508.9	509.6
52.5°	441.1	446.5	445.2	446.5	443.1	441.8	442.4
55°	378.0	380.7	380.7	380.7	376.6	376.6	376.6
57.5°	313.5	314.2	312.8	313.5	312.8	308.8	308.1
60°	254.5	254.5	253.8	254.5	252.4	250.4	250.4
62.5°	198.8	200.2	202.9	200.2	198.8	200.2	198.1
65°	148.6	151.3	150.6	152.0	151.3	151.3	150.0
67.5°	112.0	112.6	113.3	114.0	114.0	114.0	114.0
70°	82.1	84.2	83.5	83.5	83.5	83.5	87.5
72.5°	55.0	57.7	57.0	58.3	58.3	59.7	58.3
75°	37.3	40.0	38.7	40.7	40.0	38.7	42.1
77.5°	25.1	26.5	27.1	27.8	27.1	26.5	27.1
80°	17.7	19.0	18.3	19.0	19.0	19.0	19.7
82.5°	10.9	12.9	12.2	12.9	12.2	12.9	12.9
85°	7.5	8.2	6.8	8.2	7.5	7.5	8.8
87.5°	4.7	4.1	4.1	4.7	4.1	4.7	4.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)