

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: P245972

Luminaire Tested: **LD8B20D010 ER8B20835 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245972
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: LD8B20D010 ER8B20835 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2171.0 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.23 / 1.15
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

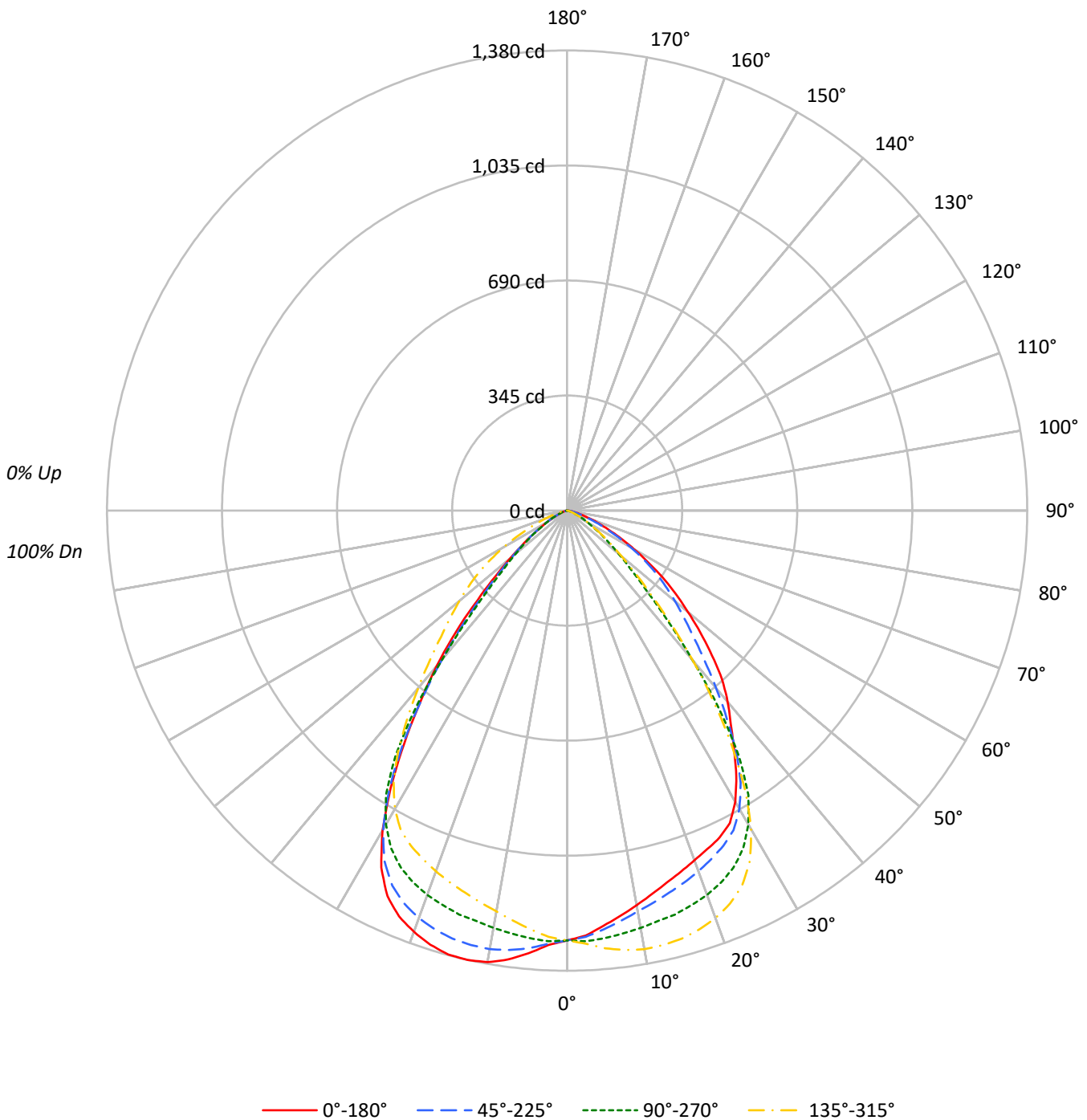
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	39745	39745	39745	39745
5°	38686	39838	41259	39838
10°	37618	39785	43057	39785
15°	36866	40020	43998	40020
20°	36615	40251	44110	40251
25°	36807	40169	43401	40169
30°	35899	38697	39395	38697
35°	32833	33759	32031	33759
40°	30146	23484	24523	23484
45°	26785	14326	16576	14326
50°	22672	9571	10626	9571
55°	18779	6532	6903	6532
60°	14320	4348	4385	4348
65°	10149	2707	2481	2707
70°	7321	1812	1650	1812
75°	4647	905	751	905
80°	3250	675	550	675
85°	2901	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	5.7
10°-20°	355.2	16.4
20°-30°	537.9	24.8
30°-40°	539.1	24.8
40°-50°	338.5	15.6
50°-60°	180.4	8.3
60°-70°	74.2	3.4
70°-80°	19.6	0.9
80°-90°	3.3	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°	1015.8	46.8
0°-40°	1555.0	71.6
0°-60°	2073.9	95.5
0°-90°	2171.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2171.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1289	1289	1289	1289	1289	
5°	1250	1287	1333	1287	1250	118
15°	1155	1254	1378	1254	1155	327
25°	1082	1181	1276	1181	1082	496
35°	872	897	851	897	872	546
45°	614	328	380	328	614	472
55°	349	122	128	122	349	311
65°	139	37	34	37	139	144
75°	39	8	6	8	39	44
85°	8	0	1	0	8	9
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°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1275.6	1274.4	1273.8	1275.0	1275.6	1278.2	1277.5	1278.8	1278.8	1279.4	1280.7
5°	1249.8	1249.2	1249.8	1249.8	1252.4	1254.9	1254.2	1256.1	1257.4	1260.5	1261.8
7.5°	1225.9	1225.9	1225.3	1227.8	1229.1	1232.9	1232.2	1235.4	1237.3	1240.4	1244.8
10°	1201.4	1201.4	1202.0	1203.9	1204.5	1210.2	1210.2	1214.6	1217.1	1220.3	1225.9
12.5°	1177.5	1177.5	1181.3	1180.0	1182.5	1186.9	1188.8	1193.2	1197.0	1203.3	1208.9
15°	1154.8	1154.8	1156.1	1159.2	1161.1	1166.8	1169.9	1175.0	1179.4	1185.7	1193.8
17.5°	1135.3	1134.7	1135.3	1139.1	1142.9	1147.9	1150.4	1156.7	1161.1	1169.3	1176.8
20°	1115.8	1117.1	1117.1	1120.2	1122.7	1129.0	1131.5	1138.5	1143.5	1151.0	1159.9
22.5°	1098.8	1098.2	1098.2	1102.6	1104.5	1110.1	1112.6	1118.9	1124.6	1130.9	1139.1
25°	1081.8	1080.5	1083.1	1083.7	1084.9	1091.2	1093.1	1097.5	1103.2	1108.9	1117.1
27.5°	1056.6	1055.4	1056.0	1058.5	1060.4	1065.4	1066.7	1071.1	1075.5	1080.5	1087.5
30°	1008.2	1006.9	1006.3	1010.7	1012.6	1016.3	1018.2	1025.8	1027.0	1032.7	1037.7
32.5°	944.0	943.4	944.6	948.4	950.3	955.3	957.8	962.2	965.4	968.5	973.6
35°	872.2	871.0	872.2	876.0	876.0	880.4	882.3	884.2	883.6	884.2	882.9
37.5°	805.5	804.9	805.5	807.4	805.5	807.4	805.5	801.8	794.8	787.3	779.7
40°	748.9	749.5	745.8	748.3	741.3	740.1	733.2	723.7	709.9	694.8	673.4
42.5°	688.5	686.6	684.1	685.3	679.7	675.3	663.9	652.0	634.4	609.2	583.4
45°	614.2	613.6	612.3	611.7	607.9	603.5	594.1	580.2	560.7	534.9	504.1
47.5°	541.8	540.0	540.0	540.6	536.2	535.6	528.0	516.0	499.1	473.9	441.8
50°	472.6	472.0	473.3	475.8	472.6	471.4	466.3	458.2	443.1	421.7	391.4
52.5°	410.3	409.7	411.0	414.1	412.8	414.1	409.1	402.8	392.7	371.9	345.5
55°	349.3	349.3	349.3	353.0	353.0	353.0	350.5	346.8	337.3	322.2	297.7
57.5°	285.7	286.3	290.1	290.7	290.1	291.4	290.7	287.0	280.7	270.0	251.1
60°	232.2	232.2	234.1	236.0	235.4	236.0	236.0	234.1	227.8	219.0	203.9
62.5°	183.8	185.7	184.4	185.7	188.2	185.7	184.4	183.1	178.7	173.1	160.5
65°	139.1	140.3	140.3	141.0	139.7	140.3	137.8	135.9	133.4	127.1	118.9
67.5°	105.7	105.7	105.7	105.7	105.1	104.5	103.8	102.0	97.6	95.0	86.2
70°	81.2	77.4	77.4	77.4	77.4	78.0	76.2	73.6	72.4	68.0	61.7
72.5°	54.1	55.4	54.1	54.1	52.9	53.5	51.0	49.7	48.5	46.0	42.2
75°	39.0	35.9	37.1	37.8	35.9	37.1	34.6	32.1	32.1	30.2	28.3
77.5°	25.2	24.6	25.2	25.8	25.2	24.6	23.3	22.0	22.0	21.4	19.5
80°	18.3	17.6	17.6	17.6	17.0	17.6	16.4	16.4	15.1	14.5	13.2
82.5°	12.0	12.0	11.3	12.0	11.3	12.0	10.1	10.1	10.1	9.4	8.2
85°	8.2	6.9	6.9	7.6	6.3	7.6	6.9	6.3	5.7	5.7	5.0
87.5°	3.8	4.4	3.8	4.4	3.8	3.8	4.4	3.8	3.8	2.5	2.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1282.6	1283.2	1283.2	1285.7	1287.0	1287.6	1287.6	1292.6	1290.7	1292.0	1293.3
5°	1264.3	1268.1	1269.3	1269.3	1276.3	1278.8	1281.3	1287.0	1287.6	1291.4	1295.8
7.5°	1246.7	1251.1	1253.6	1259.3	1263.7	1268.1	1275.6	1279.4	1283.2	1288.2	1293.9
10°	1229.7	1234.7	1239.8	1244.2	1251.1	1256.8	1261.8	1270.6	1275.0	1281.9	1289.5
12.5°	1213.3	1220.3	1224.7	1232.2	1239.8	1244.8	1252.4	1260.5	1267.5	1274.4	1283.2
15°	1198.9	1207.1	1212.1	1220.3	1228.4	1235.4	1243.5	1253.6	1258.7	1266.8	1275.0
17.5°	1183.1	1191.9	1198.2	1205.8	1215.9	1223.4	1230.3	1240.4	1246.7	1255.5	1264.9
20°	1166.8	1175.6	1183.1	1190.7	1200.8	1208.3	1216.5	1226.6	1233.5	1242.3	1249.8
22.5°	1147.3	1155.5	1163.6	1172.4	1182.5	1188.8	1198.2	1207.1	1214.6	1222.8	1230.3
25°	1122.1	1132.2	1138.5	1146.6	1154.8	1161.7	1171.8	1180.6	1186.9	1194.5	1201.4
27.5°	1092.5	1100.1	1105.1	1112.0	1120.2	1126.5	1134.0	1142.9	1149.2	1156.1	1161.1
30°	1042.1	1049.1	1053.5	1058.5	1066.7	1072.4	1078.7	1086.8	1091.2	1096.3	1100.7
32.5°	976.1	981.7	984.3	988.0	993.7	999.4	1004.4	1011.3	1013.2	1016.3	1016.3
35°	880.4	881.7	881.1	882.3	884.8	888.0	892.4	896.8	899.3	899.3	897.4
37.5°	768.4	760.9	752.7	746.4	744.5	743.2	745.8	747.6	750.2	751.4	748.3
40°	652.0	635.0	616.7	600.4	589.0	584.0	582.1	583.4	583.4	587.8	587.8
42.5°	551.9	525.5	498.4	473.9	457.5	444.9	439.3	439.3	439.9	443.1	444.9
45°	468.9	435.5	404.0	377.0	354.3	337.9	330.4	328.5	327.9	329.1	333.5
47.5°	405.3	370.7	337.9	304.6	280.7	264.3	257.4	254.9	252.4	254.9	255.5
50°	355.6	319.7	285.1	251.7	226.6	212.1	203.3	199.5	198.9	198.9	200.1
52.5°	310.2	276.9	242.3	208.3	181.9	168.0	159.9	158.0	155.4	158.0	158.0
55°	267.5	234.1	200.1	168.0	146.0	131.5	124.0	121.5	120.2	122.1	122.1
57.5°	220.9	192.6	161.1	132.2	110.1	100.1	94.4	91.3	90.6	91.9	90.6
60°	181.2	157.3	130.3	103.8	86.9	76.2	71.8	70.5	69.2	70.5	70.5
62.5°	143.5	123.4	101.3	81.2	66.7	59.2	54.1	54.1	53.5	53.5	54.1
65°	106.4	90.6	74.9	57.9	46.6	40.9	37.1	37.1	36.5	37.1	36.5
67.5°	77.4	66.7	54.1	42.2	33.4	30.2	27.7	25.8	27.1	25.8	25.2
70°	56.7	47.8	39.0	32.1	25.8	22.7	20.8	20.1	18.9	18.9	18.9
72.5°	37.8	32.1	26.4	20.8	17.0	13.8	13.2	12.0	10.7	11.3	12.6
75°	25.2	21.4	18.9	15.1	11.3	11.3	7.6	7.6	6.3	7.6	5.7
77.5°	17.6	14.5	11.3	9.4	7.6	6.9	5.0	5.0	4.4	4.4	4.4
80°	12.6	10.7	8.2	6.9	5.0	5.0	4.4	3.8	3.1	3.1	3.8
82.5°	7.6	5.7	5.7	5.0	3.1	2.5	1.9	2.5	1.3	1.3	1.3
85°	4.4	3.8	3.1	1.9	1.3	1.3	0.6	0.0	0.6	0.6	0.0
87.5°	2.5	1.3	1.3	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1296.4	1295.8	1297.0	1297.0	1300.8	1300.2	1302.1	1302.1	1300.8	1301.4	1304.0
5°	1300.8	1302.7	1306.5	1309.6	1315.3	1317.8	1320.9	1324.1	1324.7	1326.6	1328.5
7.5°	1300.8	1307.1	1311.5	1317.2	1324.7	1329.1	1336.1	1341.7	1344.2	1347.4	1351.2
10°	1298.3	1304.6	1312.8	1319.1	1328.5	1335.4	1342.3	1351.2	1354.9	1360.0	1365.0
12.5°	1293.3	1300.2	1309.0	1317.2	1327.9	1334.2	1343.0	1351.2	1356.8	1363.7	1369.4
15°	1285.7	1293.9	1302.1	1310.3	1321.6	1329.1	1337.3	1346.7	1352.4	1360.0	1365.0
17.5°	1273.8	1282.6	1290.1	1297.7	1308.4	1317.2	1324.7	1333.5	1339.2	1345.5	1352.4
20°	1259.3	1267.5	1275.6	1281.9	1292.6	1300.2	1308.4	1316.5	1320.9	1322.2	1332.9
22.5°	1241.0	1246.7	1253.0	1263.1	1269.3	1276.3	1283.8	1291.4	1295.8	1302.7	1306.5
25°	1210.8	1216.5	1223.4	1227.8	1235.4	1241.0	1248.6	1256.8	1259.3	1264.3	1268.1
27.5°	1168.7	1171.8	1175.0	1178.7	1183.1	1186.3	1190.7	1194.5	1197.0	1199.5	1202.0
30°	1101.9	1101.9	1101.9	1099.4	1101.3	1103.2	1103.8	1103.2	1103.2	1102.6	1102.6
32.5°	1013.8	1008.8	1003.1	998.1	996.2	993.7	992.4	990.5	987.4	985.5	986.1
35°	894.9	883.6	876.7	870.4	865.3	861.6	859.7	857.8	857.1	854.6	852.1
37.5°	746.4	738.2	733.2	729.4	725.0	721.2	721.8	722.5	724.3	723.1	723.7
40°	589.0	587.2	589.0	584.6	583.4	584.6	587.8	592.2	594.7	597.2	601.6
42.5°	448.1	451.2	455.6	455.6	457.5	460.0	463.8	470.7	474.5	478.9	484.0
45°	337.3	341.1	346.8	348.6	349.9	353.0	357.5	363.1	365.6	369.4	373.8
47.5°	259.9	262.4	265.6	268.7	271.9	273.1	277.5	277.5	280.7	283.2	284.4
50°	202.6	205.2	207.7	209.6	210.8	212.7	214.0	215.9	216.5	217.7	218.4
52.5°	158.6	161.7	161.7	163.0	164.9	166.8	166.1	166.8	167.4	167.4	169.3
55°	124.0	124.0	125.9	125.9	127.1	126.5	127.1	127.1	127.1	127.1	127.8
57.5°	92.5	93.1	95.0	93.8	93.1	94.4	93.1	94.4	93.8	95.0	93.1
60°	71.1	71.1	71.8	71.8	72.4	72.4	72.4	71.8	71.8	71.1	71.1
62.5°	53.5	54.1	54.8	54.1	54.1	54.1	53.5	53.5	52.9	52.2	52.2
65°	35.9	35.3	36.5	35.3	35.9	35.9	35.3	35.9	34.0	34.6	34.0
67.5°	25.8	25.2	24.6	25.2	24.6	23.9	23.9	24.6	25.2	23.3	23.3
70°	17.0	17.6	17.0	17.6	18.3	18.3	17.6	17.0	17.6	16.4	17.0
72.5°	10.7	10.7	10.7	10.7	10.7	11.3	11.3	11.3	10.1	10.1	9.4
75°	5.0	6.9	5.7	5.0	6.9	6.9	6.3	6.3	5.7	5.7	5.7
77.5°	5.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.1	3.8	3.1
80°	2.5	2.5	2.5	1.9	2.5	2.5	3.1	2.5	2.5	1.9	3.1
82.5°	1.3	1.3	1.3	0.0	0.6	1.3	1.3	0.6	1.3	1.3	0.6
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: P245972

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1303.3	1302.7	1303.3	1304.0	1303.3	1302.7	1303.3	1304.0	1301.4	1300.8	1302.1
5°	1331.0	1331.0	1332.3	1332.9	1332.3	1331.0	1331.0	1328.5	1326.6	1324.7	1324.1
7.5°	1354.9	1356.2	1357.4	1358.1	1357.4	1356.2	1354.9	1351.2	1347.4	1344.2	1341.7
10°	1369.4	1371.3	1373.8	1375.1	1373.8	1371.3	1369.4	1365.0	1360.0	1354.9	1351.2
12.5°	1375.7	1377.6	1380.7	1380.1	1380.7	1377.6	1375.7	1369.4	1363.7	1356.8	1351.2
15°	1371.3	1373.8	1377.0	1378.2	1377.0	1373.8	1371.3	1365.0	1360.0	1352.4	1346.7
17.5°	1357.4	1361.2	1363.1	1365.0	1363.1	1361.2	1357.4	1352.4	1345.5	1339.2	1333.5
20°	1338.6	1341.1	1343.6	1344.2	1343.6	1341.1	1338.6	1332.9	1322.2	1320.9	1316.5
22.5°	1311.5	1313.4	1319.1	1317.2	1319.1	1313.4	1311.5	1306.5	1302.7	1295.8	1291.4
25°	1272.5	1274.4	1275.0	1275.6	1275.0	1274.4	1272.5	1268.1	1264.3	1259.3	1256.8
27.5°	1205.2	1205.2	1206.4	1207.1	1206.4	1205.2	1205.2	1202.0	1199.5	1197.0	1194.5
30°	1103.2	1103.2	1103.2	1106.4	1103.2	1103.2	1103.2	1102.6	1102.6	1103.2	1103.2
32.5°	985.5	984.3	983.0	984.3	983.0	984.3	985.5	986.1	985.5	987.4	990.5
35°	852.1	851.5	853.4	850.9	853.4	851.5	852.1	852.1	854.6	857.1	857.8
37.5°	724.3	723.1	725.6	723.1	725.6	723.1	724.3	723.7	723.1	724.3	722.5
40°	602.9	604.1	604.1	609.2	604.1	604.1	602.9	601.6	597.2	594.7	592.2
42.5°	486.5	490.2	489.0	492.8	489.0	490.2	486.5	484.0	478.9	474.5	470.7
45°	376.3	378.9	378.9	380.1	378.9	378.9	376.3	373.8	369.4	365.6	363.1
47.5°	288.8	288.8	288.8	289.5	288.8	288.8	288.8	284.4	283.2	280.7	277.5
50°	219.6	220.3	220.9	221.5	220.9	220.3	219.6	218.4	217.7	216.5	215.9
52.5°	168.7	169.3	168.0	169.3	168.0	169.3	168.7	169.3	167.4	167.4	166.8
55°	127.8	127.1	127.8	128.4	127.8	127.1	127.8	127.8	127.1	127.1	127.1
57.5°	93.8	92.5	92.5	92.5	92.5	92.5	93.8	93.1	95.0	93.8	94.4
60°	69.9	70.5	70.5	71.1	70.5	70.5	69.9	71.1	71.1	71.8	71.8
62.5°	51.6	53.5	52.2	53.5	52.2	53.5	51.6	52.2	52.2	52.9	53.5
65°	33.4	33.4	33.4	34.0	33.4	33.4	33.4	34.0	34.6	34.0	35.9
67.5°	22.7	23.3	24.6	23.9	24.6	23.3	22.7	23.3	23.3	25.2	24.6
70°	18.3	16.4	16.4	18.3	16.4	16.4	18.3	17.0	16.4	17.6	17.0
72.5°	10.7	9.4	10.7	10.7	10.7	9.4	10.7	9.4	10.1	10.1	11.3
75°	5.7	5.0	4.4	6.3	4.4	5.0	5.7	5.7	5.7	5.7	6.3
77.5°	3.8	3.1	4.4	4.4	4.4	3.1	3.8	3.1	3.8	3.1	3.8
80°	1.9	2.5	1.9	3.1	1.9	2.5	1.9	3.1	1.9	2.5	2.5
82.5°	0.6	1.3	1.3	1.3	1.3	1.3	0.6	0.6	1.3	1.3	0.6
85°	0.0	1.3	0.6	0.6	0.6	1.3	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.0	0.0	0.6	0.0	0.0	0.6	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: P245972

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1302.1	1300.2	1300.8	1297.0	1297.0	1295.8	1296.4	1293.3	1292.0	1290.7	1292.6
5°	1320.9	1317.8	1315.3	1309.6	1306.5	1302.7	1300.8	1295.8	1291.4	1287.6	1287.0
7.5°	1336.1	1329.1	1324.7	1317.2	1311.5	1307.1	1300.8	1293.9	1288.2	1283.2	1279.4
10°	1342.3	1335.4	1328.5	1319.1	1312.8	1304.6	1298.3	1289.5	1281.9	1275.0	1270.6
12.5°	1343.0	1334.2	1327.9	1317.2	1309.0	1300.2	1293.3	1283.2	1274.4	1267.5	1260.5
15°	1337.3	1329.1	1321.6	1310.3	1302.1	1293.9	1285.7	1275.0	1266.8	1258.7	1253.6
17.5°	1324.7	1317.2	1308.4	1297.7	1290.1	1282.6	1273.8	1264.9	1255.5	1246.7	1240.4
20°	1308.4	1300.2	1292.6	1281.9	1275.6	1267.5	1259.3	1249.8	1242.3	1233.5	1226.6
22.5°	1283.8	1276.3	1269.3	1263.1	1253.0	1246.7	1241.0	1230.3	1222.8	1214.6	1207.1
25°	1248.6	1241.0	1235.4	1227.8	1223.4	1216.5	1210.8	1201.4	1194.5	1186.9	1180.6
27.5°	1190.7	1186.3	1183.1	1178.7	1175.0	1171.8	1168.7	1161.1	1156.1	1149.2	1142.9
30°	1103.8	1103.2	1101.3	1099.4	1101.9	1101.9	1101.9	1100.7	1096.3	1091.2	1086.8
32.5°	992.4	993.7	996.2	998.1	1003.1	1008.8	1013.8	1016.3	1016.3	1013.2	1011.3
35°	859.7	861.6	865.3	870.4	876.7	883.6	894.9	897.4	899.3	899.3	896.8
37.5°	721.8	721.2	725.0	729.4	733.2	738.2	746.4	748.3	751.4	750.2	747.6
40°	587.8	584.6	583.4	584.6	589.0	587.2	589.0	587.8	587.8	583.4	583.4
42.5°	463.8	460.0	457.5	455.6	455.6	451.2	448.1	444.9	443.1	439.9	439.3
45°	357.5	353.0	349.9	348.6	346.8	341.1	337.3	333.5	329.1	327.9	328.5
47.5°	277.5	273.1	271.9	268.7	265.6	262.4	259.9	255.5	254.9	252.4	254.9
50°	214.0	212.7	210.8	209.6	207.7	205.2	202.6	200.1	198.9	198.9	199.5
52.5°	166.1	166.8	164.9	163.0	161.7	161.7	158.6	158.0	158.0	155.4	158.0
55°	127.1	126.5	127.1	125.9	125.9	124.0	124.0	122.1	122.1	120.2	121.5
57.5°	93.1	94.4	93.1	93.8	95.0	93.1	92.5	90.6	91.9	90.6	91.3
60°	72.4	72.4	72.4	71.8	71.8	71.1	71.1	70.5	70.5	69.2	70.5
62.5°	53.5	54.1	54.1	54.1	54.8	54.1	53.5	54.1	53.5	53.5	54.1
65°	35.3	35.9	35.9	35.3	36.5	35.3	35.9	36.5	37.1	36.5	37.1
67.5°	23.9	23.9	24.6	25.2	24.6	25.2	25.8	25.2	25.8	27.1	25.8
70°	17.6	18.3	18.3	17.6	17.0	17.6	17.0	18.9	18.9	18.9	20.1
72.5°	11.3	11.3	10.7	10.7	10.7	10.7	10.7	12.6	11.3	10.7	12.0
75°	6.3	6.9	6.9	5.0	5.7	6.9	5.0	5.7	7.6	6.3	7.6
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.0	4.4	4.4	4.4	5.0
80°	3.1	2.5	2.5	1.9	2.5	2.5	2.5	3.8	3.1	3.1	3.8
82.5°	1.3	1.3	0.6	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.3	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: P245972

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1287.6	1287.6	1287.0	1285.7	1283.2	1283.2	1282.6	1280.7	1279.4	1278.8	1278.8
5°	1281.3	1278.8	1276.3	1269.3	1269.3	1268.1	1264.3	1261.8	1260.5	1257.4	1256.1
7.5°	1275.6	1268.1	1263.7	1259.3	1253.6	1251.1	1246.7	1244.8	1240.4	1237.3	1235.4
10°	1261.8	1256.8	1251.1	1244.2	1239.8	1234.7	1229.7	1225.9	1220.3	1217.1	1214.6
12.5°	1252.4	1244.8	1239.8	1232.2	1224.7	1220.3	1213.3	1208.9	1203.3	1197.0	1193.2
15°	1243.5	1235.4	1228.4	1220.3	1212.1	1207.1	1198.9	1193.8	1185.7	1179.4	1175.0
17.5°	1230.3	1223.4	1215.9	1205.8	1198.2	1191.9	1183.1	1176.8	1169.3	1161.1	1156.7
20°	1216.5	1208.3	1200.8	1190.7	1183.1	1175.6	1166.8	1159.9	1151.0	1143.5	1138.5
22.5°	1198.2	1188.8	1182.5	1172.4	1163.6	1155.5	1147.3	1139.1	1130.9	1124.6	1118.9
25°	1171.8	1161.7	1154.8	1146.6	1138.5	1132.2	1122.1	1117.1	1108.9	1103.2	1097.5
27.5°	1134.0	1126.5	1120.2	1112.0	1105.1	1100.1	1092.5	1087.5	1080.5	1075.5	1071.1
30°	1078.7	1072.4	1066.7	1058.5	1053.5	1049.1	1042.1	1037.7	1032.7	1027.0	1025.8
32.5°	1004.4	999.4	993.7	988.0	984.3	981.7	976.1	973.6	968.5	965.4	962.2
35°	892.4	888.0	884.8	882.3	881.1	881.7	880.4	882.9	884.2	883.6	884.2
37.5°	745.8	743.2	744.5	746.4	752.7	760.9	768.4	779.7	787.3	794.8	801.8
40°	582.1	584.0	589.0	600.4	616.7	635.0	652.0	673.4	694.8	709.9	723.7
42.5°	439.3	444.9	457.5	473.9	498.4	525.5	551.9	583.4	609.2	634.4	652.0
45°	330.4	337.9	354.3	377.0	404.0	435.5	468.9	504.1	534.9	560.7	580.2
47.5°	257.4	264.3	280.7	304.6	337.9	370.7	405.3	441.8	473.9	499.1	516.0
50°	203.3	212.1	226.6	251.7	285.1	319.7	355.6	391.4	421.7	443.1	458.2
52.5°	159.9	168.0	181.9	208.3	242.3	276.9	310.2	345.5	371.9	392.7	402.8
55°	124.0	131.5	146.0	168.0	200.1	234.1	267.5	297.7	322.2	337.3	346.8
57.5°	94.4	100.1	110.1	132.2	161.1	192.6	220.9	251.1	270.0	280.7	287.0
60°	71.8	76.2	86.9	103.8	130.3	157.3	181.2	203.9	219.0	227.8	234.1
62.5°	54.1	59.2	66.7	81.2	101.3	123.4	143.5	160.5	173.1	178.7	183.1
65°	37.1	40.9	46.6	57.9	74.9	90.6	106.4	118.9	127.1	133.4	135.9
67.5°	27.7	30.2	33.4	42.2	54.1	66.7	77.4	86.2	95.0	97.6	102.0
70°	20.8	22.7	25.8	32.1	39.0	47.8	56.7	61.7	68.0	72.4	73.6
72.5°	13.2	13.8	17.0	20.8	26.4	32.1	37.8	42.2	46.0	48.5	49.7
75°	7.6	11.3	11.3	15.1	18.9	21.4	25.2	28.3	30.2	32.1	32.1
77.5°	5.0	6.9	7.6	9.4	11.3	14.5	17.6	19.5	21.4	22.0	22.0
80°	4.4	5.0	5.0	6.9	8.2	10.7	12.6	13.2	14.5	15.1	16.4
82.5°	1.9	2.5	3.1	5.0	5.7	5.7	7.6	8.2	9.4	10.1	10.1
85°	0.6	1.3	1.3	1.9	3.1	3.8	4.4	5.0	5.7	5.7	6.3
87.5°	0.6	0.6	0.0	0.6	1.3	1.3	2.5	2.5	2.5	3.8	3.8
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: P245972

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9	1288.9
2.5°	1277.5	1278.2	1275.6	1275.0	1273.8	1274.4	1275.6
5°	1254.2	1254.9	1252.4	1249.8	1249.8	1249.2	1249.8
7.5°	1232.2	1232.9	1229.1	1227.8	1225.3	1225.9	1225.9
10°	1210.2	1210.2	1204.5	1203.9	1202.0	1201.4	1201.4
12.5°	1188.8	1186.9	1182.5	1180.0	1181.3	1177.5	1177.5
15°	1169.9	1166.8	1161.1	1159.2	1156.1	1154.8	1154.8
17.5°	1150.4	1147.9	1142.9	1139.1	1135.3	1134.7	1135.3
20°	1131.5	1129.0	1122.7	1120.2	1117.1	1117.1	1115.8
22.5°	1112.6	1110.1	1104.5	1102.6	1098.2	1098.2	1098.8
25°	1093.1	1091.2	1084.9	1083.7	1083.1	1080.5	1081.8
27.5°	1066.7	1065.4	1060.4	1058.5	1056.0	1055.4	1056.6
30°	1018.2	1016.3	1012.6	1010.7	1006.3	1006.9	1008.2
32.5°	957.8	955.3	950.3	948.4	944.6	943.4	944.0
35°	882.3	880.4	876.0	876.0	872.2	871.0	872.2
37.5°	805.5	807.4	805.5	807.4	805.5	804.9	805.5
40°	733.2	740.1	741.3	748.3	745.8	749.5	748.9
42.5°	663.9	675.3	679.7	685.3	684.1	686.6	688.5
45°	594.1	603.5	607.9	611.7	612.3	613.6	614.2
47.5°	528.0	535.6	536.2	540.6	540.0	540.0	541.8
50°	466.3	471.4	472.6	475.8	473.3	472.0	472.6
52.5°	409.1	414.1	412.8	414.1	411.0	409.7	410.3
55°	350.5	353.0	353.0	353.0	349.3	349.3	349.3
57.5°	290.7	291.4	290.1	290.7	290.1	286.3	285.7
60°	236.0	236.0	235.4	236.0	234.1	232.2	232.2
62.5°	184.4	185.7	188.2	185.7	184.4	185.7	183.8
65°	137.8	140.3	139.7	141.0	140.3	140.3	139.1
67.5°	103.8	104.5	105.1	105.7	105.7	105.7	105.7
70°	76.2	78.0	77.4	77.4	77.4	77.4	81.2
72.5°	51.0	53.5	52.9	54.1	54.1	55.4	54.1
75°	34.6	37.1	35.9	37.8	37.1	35.9	39.0
77.5°	23.3	24.6	25.2	25.8	25.2	24.6	25.2
80°	16.4	17.6	17.0	17.6	17.6	17.6	18.3
82.5°	10.1	12.0	11.3	12.0	11.3	12.0	12.0
85°	6.9	7.6	6.3	7.6	6.9	6.9	8.2
87.5°	4.4	3.8	3.8	4.4	3.8	4.4	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)