

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: P245013

Luminaire Tested: **LD8B30D010 ER8B309727 8LBSW0WMH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245013
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: LD8B30D010 ER8B309727 8LBSW0WMH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
97 CRI 2700 CCT WITH WARM HAZE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2135.0 lumens
Efficiency: N/A
Efficacy: 78.8 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

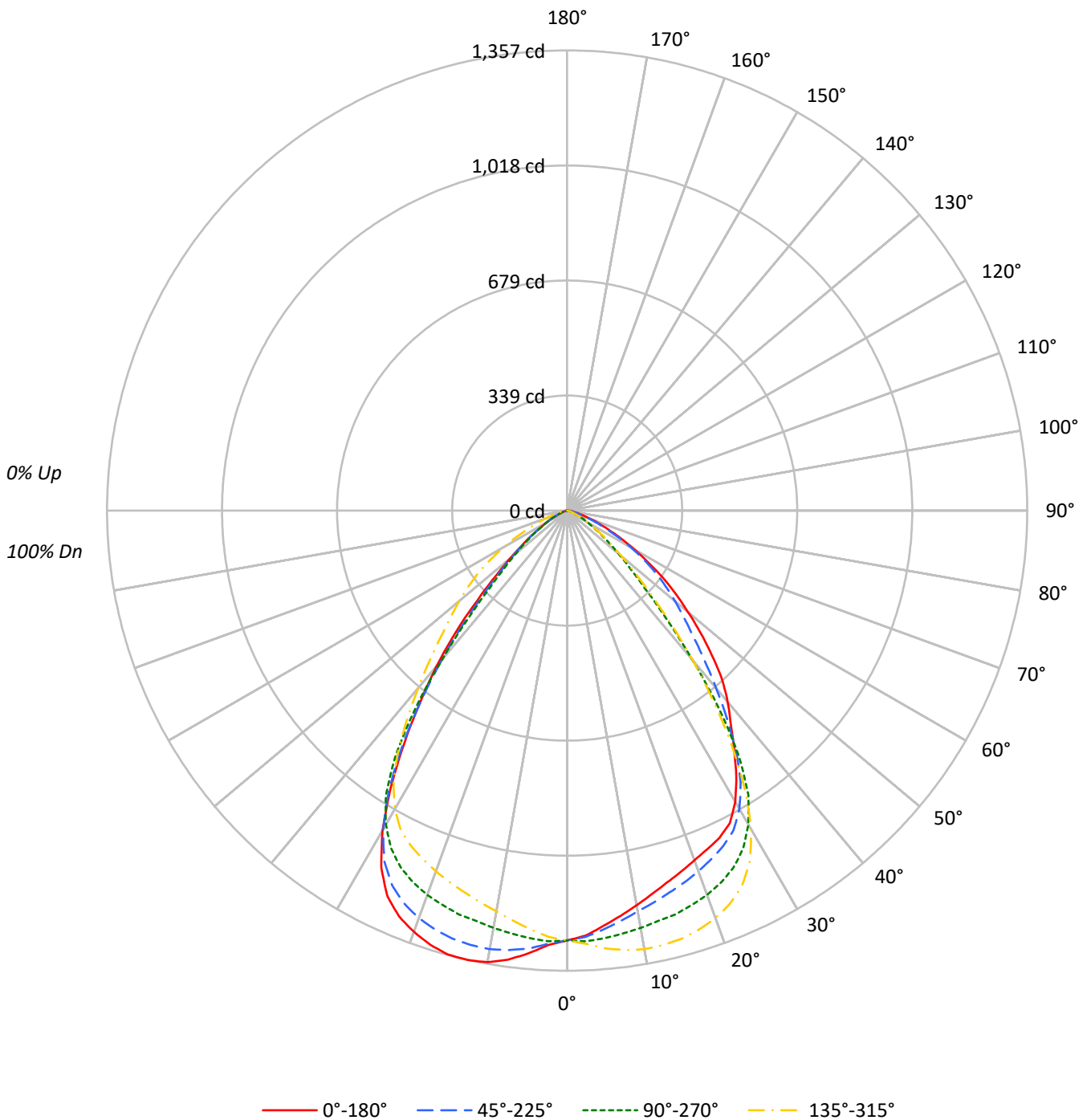
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	120.6	5.7
10°-20°	349.4	16.4
20°-30°	529.0	24.8
30°-40°	530.2	24.8
40°-50°	332.9	15.6
50°-60°	177.4	8.3
60°-70°	73.0	3.4
70°-80°	19.3	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°	999.0	46.8
0°-40°	1529.2	71.6
0°-60°	2039.5	95.5
0°-90°	2135.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2135.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1268	1268	1268	1268	1268	
5°	1229	1266	1311	1266	1229	116
15°	1136	1233	1355	1233	1136	321
25°	1064	1161	1254	1161	1064	488
35°	858	882	837	882	858	537
45°	604	323	374	323	604	465
55°	344	119	126	119	344	306
65°	137	36	33	36	137	142
75°	38	7	6	7	38	43
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°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1254.5	1253.2	1252.6	1253.9	1254.5	1257.0	1256.3	1257.6	1257.6	1258.2	1259.4
5°	1229.1	1228.5	1229.1	1229.1	1231.6	1234.1	1233.4	1235.3	1236.5	1239.6	1240.9
7.5°	1205.6	1205.6	1205.0	1207.4	1208.7	1212.4	1211.8	1214.9	1216.7	1219.8	1224.2
10°	1181.5	1181.5	1182.1	1183.9	1184.6	1190.1	1190.1	1194.4	1196.9	1200.0	1205.6
12.5°	1157.9	1157.9	1161.7	1160.4	1162.9	1167.2	1169.1	1173.4	1177.1	1183.3	1188.9
15°	1135.7	1135.7	1136.9	1140.0	1141.8	1147.4	1150.5	1155.5	1159.8	1166.0	1174.0
17.5°	1116.5	1115.9	1116.5	1120.2	1123.9	1128.9	1131.3	1137.5	1141.8	1149.9	1157.3
20°	1097.3	1098.5	1098.5	1101.6	1104.1	1110.3	1112.8	1119.6	1124.5	1131.9	1140.6
22.5°	1080.6	1080.0	1080.0	1084.3	1086.2	1091.7	1094.2	1100.4	1106.0	1112.1	1120.2
25°	1063.9	1062.6	1065.1	1065.7	1067.0	1073.1	1075.0	1079.3	1084.9	1090.5	1098.5
27.5°	1039.1	1037.9	1038.5	1041.0	1042.8	1047.8	1049.0	1053.3	1057.7	1062.6	1069.4
30°	991.4	990.2	989.6	993.9	995.8	999.5	1001.4	1008.8	1010.0	1015.6	1020.5
32.5°	928.3	927.7	929.0	932.7	934.5	939.5	942.0	946.3	949.4	952.5	957.4
35°	857.8	856.5	857.8	861.5	861.5	865.8	867.7	869.5	868.9	869.5	868.3
37.5°	792.2	791.6	792.2	794.0	792.2	794.0	792.2	788.5	781.7	774.2	766.8
40°	736.5	737.1	733.4	735.9	729.0	727.8	721.0	711.7	698.1	683.3	662.2
42.5°	677.1	675.2	672.7	674.0	668.4	664.1	652.9	641.2	623.8	599.1	573.7
45°	604.0	603.4	602.2	601.6	597.8	593.5	584.2	570.6	551.4	526.1	495.7
47.5°	532.9	531.0	531.0	531.6	527.3	526.7	519.2	507.5	490.8	466.0	434.5
50°	464.8	464.2	465.4	467.9	464.8	463.5	458.6	450.6	435.7	414.7	384.9
52.5°	403.5	402.9	404.1	407.2	406.0	407.2	402.3	396.1	386.2	365.8	339.8
55°	343.5	343.5	343.5	347.2	347.2	347.2	344.7	341.0	331.7	316.9	292.7
57.5°	281.0	281.6	285.3	285.9	285.3	286.6	285.9	282.2	276.0	265.5	246.9
60°	228.4	228.4	230.2	232.1	231.5	232.1	232.1	230.2	224.0	215.4	200.5
62.5°	180.7	182.6	181.3	182.6	185.0	182.6	181.3	180.1	175.8	170.2	157.8
65°	136.8	138.0	138.0	138.6	137.4	138.0	135.5	133.7	131.2	125.0	117.0
67.5°	104.0	104.0	104.0	104.0	103.3	102.7	102.1	100.3	95.9	93.5	84.8
70°	79.8	76.1	76.1	76.1	76.1	76.8	74.9	72.4	71.2	66.8	60.7
72.5°	53.2	54.5	53.2	53.2	52.0	52.6	50.1	48.9	47.7	45.2	41.5
75°	38.4	35.3	36.5	37.1	35.3	36.5	34.0	31.6	31.6	29.7	27.8
77.5°	24.8	24.1	24.8	25.4	24.8	24.1	22.9	21.7	21.7	21.0	19.2
80°	18.0	17.3	17.3	17.3	16.7	17.3	16.1	16.1	14.9	14.2	13.0
82.5°	11.8	11.8	11.1	11.8	11.1	11.8	9.9	9.9	9.9	9.3	8.0
85°	8.0	6.8	6.8	7.4	6.2	7.4	6.8	6.2	5.6	5.6	4.9
87.5°	3.7	4.3	3.7	4.3	3.7	3.7	4.3	3.7	3.7	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°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1261.3	1261.9	1261.9	1264.4	1265.6	1266.2	1266.2	1271.2	1269.3	1270.6	1271.8
5°	1243.4	1247.1	1248.3	1248.3	1255.1	1257.6	1260.0	1265.6	1266.2	1270.0	1274.3
7.5°	1226.0	1230.3	1232.8	1238.4	1242.7	1247.1	1254.5	1258.2	1261.9	1266.9	1272.4
10°	1209.3	1214.3	1219.2	1223.5	1230.3	1235.9	1240.9	1249.5	1253.9	1260.7	1268.1
12.5°	1193.2	1200.0	1204.4	1211.8	1219.2	1224.2	1231.6	1239.6	1246.4	1253.2	1261.9
15°	1179.0	1187.0	1192.0	1200.0	1208.1	1214.9	1222.9	1232.8	1237.8	1245.8	1253.9
17.5°	1163.5	1172.2	1178.4	1185.8	1195.7	1203.1	1209.9	1219.8	1226.0	1234.7	1244.0
20°	1147.4	1156.1	1163.5	1170.9	1180.8	1188.3	1196.3	1206.2	1213.0	1221.7	1229.1
22.5°	1128.2	1136.3	1144.3	1153.0	1162.9	1169.1	1178.4	1187.0	1194.4	1202.5	1209.9
25°	1103.5	1113.4	1119.6	1127.6	1135.7	1142.5	1152.4	1161.0	1167.2	1174.7	1181.5
27.5°	1074.4	1081.8	1086.8	1093.6	1101.6	1107.8	1115.2	1123.9	1130.1	1136.9	1141.8
30°	1024.9	1031.7	1036.0	1041.0	1049.0	1054.6	1060.8	1068.8	1073.1	1078.1	1082.4
32.5°	959.9	965.5	967.9	971.7	977.2	982.8	987.8	994.6	996.4	999.5	999.5
35°	865.8	867.1	866.4	867.7	870.2	873.2	877.6	881.9	884.4	884.4	882.5
37.5°	755.7	748.2	740.2	734.0	732.1	730.9	733.4	735.2	737.7	738.9	735.9
40°	641.2	624.5	606.5	590.4	579.3	574.3	572.5	573.7	573.7	578.0	578.0
42.5°	542.8	516.8	490.2	466.0	449.9	437.6	432.0	432.0	432.6	435.7	437.6
45°	461.1	428.3	397.3	370.7	348.4	332.3	324.9	323.1	322.4	323.7	328.0
47.5°	398.6	364.5	332.3	299.5	276.0	259.9	253.1	250.6	248.2	250.6	251.3
50°	349.7	314.4	280.4	247.6	222.8	208.6	199.9	196.2	195.6	195.6	196.8
52.5°	305.1	272.3	238.3	204.9	178.9	165.2	157.2	155.3	152.9	155.3	155.3
55°	263.0	230.2	196.8	165.2	143.6	129.4	121.9	119.4	118.2	120.1	120.1
57.5°	217.2	189.4	158.4	130.0	108.3	98.4	92.8	89.7	89.1	90.4	89.1
60°	178.2	154.7	128.1	102.1	85.4	74.9	70.6	69.3	68.1	69.3	69.3
62.5°	141.1	121.3	99.6	79.8	65.6	58.2	53.2	53.2	52.6	52.6	53.2
65°	104.6	89.1	73.6	56.9	45.8	40.2	36.5	36.5	35.9	36.5	35.9
67.5°	76.1	65.6	53.2	41.5	32.8	29.7	27.2	25.4	26.6	25.4	24.8
70°	55.7	47.0	38.4	31.6	25.4	22.3	20.4	19.8	18.6	18.6	18.6
72.5°	37.1	31.6	26.0	20.4	16.7	13.6	13.0	11.8	10.5	11.1	12.4
75°	24.8	21.0	18.6	14.9	11.1	11.1	7.4	7.4	6.2	7.4	5.6
77.5°	17.3	14.2	11.1	9.3	7.4	6.8	4.9	4.9	4.3	4.3	4.3
80°	12.4	10.5	8.0	6.8	4.9	4.9	4.3	3.7	3.1	3.1	3.7
82.5°	7.4	5.6	5.6	4.9	3.1	2.5	1.9	2.5	1.2	1.2	1.2
85°	4.3	3.7	3.1	1.9	1.2	1.2	0.6	0.0	0.6	0.6	0.0
87.5°	2.5	1.2	1.2	0.6	0.0	0.6	0.6	0.0	0.0	0.0	1.2
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°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1274.9	1274.3	1275.5	1275.5	1279.3	1278.6	1280.5	1280.5	1279.3	1279.9	1282.3
5°	1279.3	1281.1	1284.8	1287.9	1293.5	1296.0	1299.0	1302.2	1302.8	1304.6	1306.5
7.5°	1279.3	1285.4	1289.8	1295.3	1302.8	1307.1	1313.9	1319.5	1321.9	1325.0	1328.7
10°	1276.8	1282.9	1291.0	1297.2	1306.5	1313.3	1320.1	1328.7	1332.5	1337.4	1342.4
12.5°	1271.8	1278.6	1287.3	1295.3	1305.8	1312.0	1320.7	1328.7	1334.3	1341.1	1346.7
15°	1264.4	1272.4	1280.5	1288.5	1299.7	1307.1	1315.1	1324.4	1330.0	1337.4	1342.4
17.5°	1252.6	1261.3	1268.7	1276.1	1286.7	1295.3	1302.8	1311.4	1317.0	1323.2	1330.0
20°	1238.4	1246.4	1254.5	1260.7	1271.2	1278.6	1286.7	1294.7	1299.0	1300.3	1310.8
22.5°	1220.5	1226.0	1232.2	1242.1	1248.3	1255.1	1262.5	1270.0	1274.3	1281.1	1284.8
25°	1190.7	1196.3	1203.1	1207.4	1214.9	1220.5	1227.9	1235.9	1238.4	1243.4	1247.1
27.5°	1149.3	1152.4	1155.5	1159.2	1163.5	1166.6	1170.9	1174.7	1177.1	1179.6	1182.1
30°	1083.7	1083.7	1083.7	1081.2	1083.1	1084.9	1085.5	1084.9	1084.9	1084.3	1084.3
32.5°	997.0	992.1	986.5	981.6	979.7	977.2	976.0	974.1	971.0	969.2	969.8
35°	880.0	868.9	862.1	855.9	851.0	847.3	845.4	843.5	842.9	840.5	838.0
37.5°	734.0	726.0	721.0	717.3	713.0	709.2	709.9	710.5	712.3	711.1	711.7
40°	579.3	577.4	579.3	574.9	573.7	574.9	578.0	582.4	584.9	587.3	591.7
42.5°	440.6	443.7	448.1	448.1	449.9	452.4	456.1	462.9	466.6	471.0	475.9
45°	331.7	335.4	341.0	342.9	344.1	347.2	351.5	357.1	359.6	363.3	367.6
47.5°	255.6	258.1	261.2	264.3	267.3	268.6	272.9	272.9	276.0	278.5	279.7
50°	199.3	201.8	204.2	206.1	207.3	209.2	210.4	212.3	212.9	214.1	214.7
52.5°	156.0	159.1	159.1	160.3	162.1	164.0	163.4	164.0	164.6	164.6	166.5
55°	121.9	121.9	123.8	123.8	125.0	124.4	125.0	125.0	125.0	125.0	125.6
57.5°	91.0	91.6	93.5	92.2	91.6	92.8	91.6	92.8	92.2	93.5	91.6
60°	69.9	69.9	70.6	70.6	71.2	71.2	71.2	70.6	70.6	69.9	69.9
62.5°	52.6	53.2	53.9	53.2	53.2	53.2	52.6	52.6	52.0	51.4	51.4
65°	35.3	34.7	35.9	34.7	35.3	35.3	34.7	35.3	33.4	34.0	33.4
67.5°	25.4	24.8	24.1	24.8	24.1	23.5	23.5	24.1	24.8	22.9	22.9
70°	16.7	17.3	16.7	17.3	18.0	18.0	17.3	16.7	17.3	16.1	16.7
72.5°	10.5	10.5	10.5	10.5	10.5	11.1	11.1	11.1	9.9	9.9	9.3
75°	4.9	6.8	5.6	4.9	6.8	6.8	6.2	6.2	5.6	5.6	5.6
77.5°	4.9	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.1	3.7	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°	1.2	1.2	1.2	0.0	0.6	1.2	1.2	0.6	1.2	1.2	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: P245013

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1281.7	1281.1	1281.7	1282.3	1281.7	1281.1	1281.7	1282.3	1279.9	1279.3	1280.5
5°	1309.0	1309.0	1310.2	1310.8	1310.2	1309.0	1309.0	1306.5	1304.6	1302.8	1302.2
7.5°	1332.5	1333.7	1334.9	1335.5	1334.9	1333.7	1332.5	1328.7	1325.0	1321.9	1319.5
10°	1346.7	1348.6	1351.0	1352.3	1351.0	1348.6	1346.7	1342.4	1337.4	1332.5	1328.7
12.5°	1352.9	1354.8	1357.8	1357.2	1357.8	1354.8	1352.9	1346.7	1341.1	1334.3	1328.7
15°	1348.6	1351.0	1354.1	1355.4	1354.1	1351.0	1348.6	1342.4	1337.4	1330.0	1324.4
17.5°	1334.9	1338.7	1340.5	1342.4	1340.5	1338.7	1334.9	1330.0	1323.2	1317.0	1311.4
20°	1316.4	1318.9	1321.3	1321.9	1321.3	1318.9	1316.4	1310.8	1300.3	1299.0	1294.7
22.5°	1289.8	1291.6	1297.2	1295.3	1297.2	1291.6	1289.8	1284.8	1281.1	1274.3	1270.0
25°	1251.4	1253.2	1253.9	1254.5	1253.9	1253.2	1251.4	1247.1	1243.4	1238.4	1235.9
27.5°	1185.2	1185.2	1186.4	1187.0	1186.4	1185.2	1185.2	1182.1	1179.6	1177.1	1174.7
30°	1084.9	1084.9	1084.9	1088.0	1084.9	1084.9	1084.9	1084.3	1084.3	1084.9	1084.9
32.5°	969.2	967.9	966.7	967.9	966.7	967.9	969.2	969.8	969.2	971.0	974.1
35°	838.0	837.4	839.2	836.7	839.2	837.4	838.0	838.0	840.5	842.9	843.5
37.5°	712.3	711.1	713.6	711.1	713.6	711.1	712.3	711.7	711.1	712.3	710.5
40°	592.9	594.1	594.1	599.1	594.1	594.1	592.9	591.7	587.3	584.9	582.4
42.5°	478.4	482.1	480.9	484.6	480.9	482.1	478.4	475.9	471.0	466.6	462.9
45°	370.1	372.6	372.6	373.8	372.6	372.6	370.1	367.6	363.3	359.6	357.1
47.5°	284.1	284.1	284.1	284.7	284.1	284.1	284.1	279.7	278.5	276.0	272.9
50°	216.0	216.6	217.2	217.9	217.2	216.6	216.0	214.7	214.1	212.9	212.3
52.5°	165.9	166.5	165.2	166.5	165.2	166.5	165.9	166.5	164.6	164.6	164.0
55°	125.6	125.0	125.6	126.2	125.6	125.0	125.6	125.6	125.0	125.0	125.0
57.5°	92.2	91.0	91.0	91.0	91.0	91.0	92.2	91.6	93.5	92.2	92.8
60°	68.7	69.3	69.3	69.9	69.3	69.3	68.7	69.9	69.9	70.6	70.6
62.5°	50.7	52.6	51.4	52.6	51.4	52.6	50.7	51.4	51.4	52.0	52.6
65°	32.8	32.8	32.8	33.4	32.8	32.8	32.8	33.4	34.0	33.4	35.3
67.5°	22.3	22.9	24.1	23.5	24.1	22.9	22.3	22.9	22.9	24.8	24.1
70°	18.0	16.1	16.1	18.0	16.1	16.1	18.0	16.7	16.1	17.3	16.7
72.5°	10.5	9.3	10.5	10.5	10.5	9.3	10.5	9.3	9.9	9.9	11.1
75°	5.6	4.9	4.3	6.2	4.3	4.9	5.6	5.6	5.6	5.6	6.2
77.5°	3.7	3.1	4.3	4.3	4.3	3.1	3.7	3.1	3.7	3.1	3.7
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	1.2	1.2	1.2	1.2	1.2	0.6	0.6	1.2	1.2	0.6
85°	0.0	1.2	0.6	0.6	0.6	1.2	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: P245013

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1280.5	1278.6	1279.3	1275.5	1275.5	1274.3	1274.9	1271.8	1270.6	1269.3	1271.2
5°	1299.0	1296.0	1293.5	1287.9	1284.8	1281.1	1279.3	1274.3	1270.0	1266.2	1265.6
7.5°	1313.9	1307.1	1302.8	1295.3	1289.8	1285.4	1279.3	1272.4	1266.9	1261.9	1258.2
10°	1320.1	1313.3	1306.5	1297.2	1291.0	1282.9	1276.8	1268.1	1260.7	1253.9	1249.5
12.5°	1320.7	1312.0	1305.8	1295.3	1287.3	1278.6	1271.8	1261.9	1253.2	1246.4	1239.6
15°	1315.1	1307.1	1299.7	1288.5	1280.5	1272.4	1264.4	1253.9	1245.8	1237.8	1232.8
17.5°	1302.8	1295.3	1286.7	1276.1	1268.7	1261.3	1252.6	1244.0	1234.7	1226.0	1219.8
20°	1286.7	1278.6	1271.2	1260.7	1254.5	1246.4	1238.4	1229.1	1221.7	1213.0	1206.2
22.5°	1262.5	1255.1	1248.3	1242.1	1232.2	1226.0	1220.5	1209.9	1202.5	1194.4	1187.0
25°	1227.9	1220.5	1214.9	1207.4	1203.1	1196.3	1190.7	1181.5	1174.7	1167.2	1161.0
27.5°	1170.9	1166.6	1163.5	1159.2	1155.5	1152.4	1149.3	1141.8	1136.9	1130.1	1123.9
30°	1085.5	1084.9	1083.1	1081.2	1083.7	1083.7	1083.7	1082.4	1078.1	1073.1	1068.8
32.5°	976.0	977.2	979.7	981.6	986.5	992.1	997.0	999.5	999.5	996.4	994.6
35°	845.4	847.3	851.0	855.9	862.1	868.9	880.0	882.5	884.4	884.4	881.9
37.5°	709.9	709.2	713.0	717.3	721.0	726.0	734.0	735.9	738.9	737.7	735.2
40°	578.0	574.9	573.7	574.9	579.3	577.4	579.3	578.0	578.0	573.7	573.7
42.5°	456.1	452.4	449.9	448.1	448.1	443.7	440.6	437.6	435.7	432.6	432.0
45°	351.5	347.2	344.1	342.9	341.0	335.4	331.7	328.0	323.7	322.4	323.1
47.5°	272.9	268.6	267.3	264.3	261.2	258.1	255.6	251.3	250.6	248.2	250.6
50°	210.4	209.2	207.3	206.1	204.2	201.8	199.3	196.8	195.6	195.6	196.2
52.5°	163.4	164.0	162.1	160.3	159.1	159.1	156.0	155.3	155.3	152.9	155.3
55°	125.0	124.4	125.0	123.8	123.8	121.9	121.9	120.1	120.1	118.2	119.4
57.5°	91.6	92.8	91.6	92.2	93.5	91.6	91.0	89.1	90.4	89.1	89.7
60°	71.2	71.2	71.2	70.6	70.6	69.9	69.9	69.3	69.3	68.1	69.3
62.5°	52.6	53.2	53.2	53.2	53.9	53.2	52.6	53.2	52.6	52.6	53.2
65°	34.7	35.3	35.3	34.7	35.9	34.7	35.3	35.9	36.5	35.9	36.5
67.5°	23.5	23.5	24.1	24.8	24.1	24.8	25.4	24.8	25.4	26.6	25.4
70°	17.3	18.0	18.0	17.3	16.7	17.3	16.7	18.6	18.6	18.6	19.8
72.5°	11.1	11.1	10.5	10.5	10.5	10.5	10.5	12.4	11.1	10.5	11.8
75°	6.2	6.8	6.8	4.9	5.6	6.8	4.9	5.6	7.4	6.2	7.4
77.5°	3.7	3.7	3.7	3.7	3.7	3.7	4.9	4.3	4.3	4.3	4.9
80°	3.1	2.5	2.5	1.9	2.5	2.5	2.5	3.7	3.1	3.1	3.7
82.5°	1.2	1.2	0.6	0.0	1.2	1.2	1.2	1.2	1.2	1.2	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	1.2	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: P245013

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1266.2	1266.2	1265.6	1264.4	1261.9	1261.9	1261.3	1259.4	1258.2	1257.6	1257.6
5°	1260.0	1257.6	1255.1	1248.3	1248.3	1247.1	1243.4	1240.9	1239.6	1236.5	1235.3
7.5°	1254.5	1247.1	1242.7	1238.4	1232.8	1230.3	1226.0	1224.2	1219.8	1216.7	1214.9
10°	1240.9	1235.9	1230.3	1223.5	1219.2	1214.3	1209.3	1205.6	1200.0	1196.9	1194.4
12.5°	1231.6	1224.2	1219.2	1211.8	1204.4	1200.0	1193.2	1188.9	1183.3	1177.1	1173.4
15°	1222.9	1214.9	1208.1	1200.0	1192.0	1187.0	1179.0	1174.0	1166.0	1159.8	1155.5
17.5°	1209.9	1203.1	1195.7	1185.8	1178.4	1172.2	1163.5	1157.3	1149.9	1141.8	1137.5
20°	1196.3	1188.3	1180.8	1170.9	1163.5	1156.1	1147.4	1140.6	1131.9	1124.5	1119.6
22.5°	1178.4	1169.1	1162.9	1153.0	1144.3	1136.3	1128.2	1120.2	1112.1	1106.0	1100.4
25°	1152.4	1142.5	1135.7	1127.6	1119.6	1113.4	1103.5	1098.5	1090.5	1084.9	1079.3
27.5°	1115.2	1107.8	1101.6	1093.6	1086.8	1081.8	1074.4	1069.4	1062.6	1057.7	1053.3
30°	1060.8	1054.6	1049.0	1041.0	1036.0	1031.7	1024.9	1020.5	1015.6	1010.0	1008.8
32.5°	987.8	982.8	977.2	971.7	967.9	965.5	959.9	957.4	952.5	949.4	946.3
35°	877.6	873.2	870.2	867.7	866.4	867.1	865.8	868.3	869.5	868.9	869.5
37.5°	733.4	730.9	732.1	734.0	740.2	748.2	755.7	766.8	774.2	781.7	788.5
40°	572.5	574.3	579.3	590.4	606.5	624.5	641.2	662.2	683.3	698.1	711.7
42.5°	432.0	437.6	449.9	466.0	490.2	516.8	542.8	573.7	599.1	623.8	641.2
45°	324.9	332.3	348.4	370.7	397.3	428.3	461.1	495.7	526.1	551.4	570.6
47.5°	253.1	259.9	276.0	299.5	332.3	364.5	398.6	434.5	466.0	490.8	507.5
50°	199.9	208.6	222.8	247.6	280.4	314.4	349.7	384.9	414.7	435.7	450.6
52.5°	157.2	165.2	178.9	204.9	238.3	272.3	305.1	339.8	365.8	386.2	396.1
55°	121.9	129.4	143.6	165.2	196.8	230.2	263.0	292.7	316.9	331.7	341.0
57.5°	92.8	98.4	108.3	130.0	158.4	189.4	217.2	246.9	265.5	276.0	282.2
60°	70.6	74.9	85.4	102.1	128.1	154.7	178.2	200.5	215.4	224.0	230.2
62.5°	53.2	58.2	65.6	79.8	99.6	121.3	141.1	157.8	170.2	175.8	180.1
65°	36.5	40.2	45.8	56.9	73.6	89.1	104.6	117.0	125.0	131.2	133.7
67.5°	27.2	29.7	32.8	41.5	53.2	65.6	76.1	84.8	93.5	95.9	100.3
70°	20.4	22.3	25.4	31.6	38.4	47.0	55.7	60.7	66.8	71.2	72.4
72.5°	13.0	13.6	16.7	20.4	26.0	31.6	37.1	41.5	45.2	47.7	48.9
75°	7.4	11.1	11.1	14.9	18.6	21.0	24.8	27.8	29.7	31.6	31.6
77.5°	4.9	6.8	7.4	9.3	11.1	14.2	17.3	19.2	21.0	21.7	21.7
80°	4.3	4.9	4.9	6.8	8.0	10.5	12.4	13.0	14.2	14.9	16.1
82.5°	1.9	2.5	3.1	4.9	5.6	5.6	7.4	8.0	9.3	9.9	9.9
85°	0.6	1.2	1.2	1.9	3.1	3.7	4.3	4.9	5.6	5.6	6.2
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.5	2.5	2.5	3.7	3.7
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: P245013

CATALOG NUMBER: LD8B30D010 ER8B309727 8LBSW0WMH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5	1267.5
2.5°	1256.3	1257.0	1254.5	1253.9	1252.6	1253.2	1254.5
5°	1233.4	1234.1	1231.6	1229.1	1229.1	1228.5	1229.1
7.5°	1211.8	1212.4	1208.7	1207.4	1205.0	1205.6	1205.6
10°	1190.1	1190.1	1184.6	1183.9	1182.1	1181.5	1181.5
12.5°	1169.1	1167.2	1162.9	1160.4	1161.7	1157.9	1157.9
15°	1150.5	1147.4	1141.8	1140.0	1136.9	1135.7	1135.7
17.5°	1131.3	1128.9	1123.9	1120.2	1116.5	1115.9	1116.5
20°	1112.8	1110.3	1104.1	1101.6	1098.5	1098.5	1097.3
22.5°	1094.2	1091.7	1086.2	1084.3	1080.0	1080.0	1080.6
25°	1075.0	1073.1	1067.0	1065.7	1065.1	1062.6	1063.9
27.5°	1049.0	1047.8	1042.8	1041.0	1038.5	1037.9	1039.1
30°	1001.4	999.5	995.8	993.9	989.6	990.2	991.4
32.5°	942.0	939.5	934.5	932.7	929.0	927.7	928.3
35°	867.7	865.8	861.5	861.5	857.8	856.5	857.8
37.5°	792.2	794.0	792.2	794.0	792.2	791.6	792.2
40°	721.0	727.8	729.0	735.9	733.4	737.1	736.5
42.5°	652.9	664.1	668.4	674.0	672.7	675.2	677.1
45°	584.2	593.5	597.8	601.6	602.2	603.4	604.0
47.5°	519.2	526.7	527.3	531.6	531.0	531.0	532.9
50°	458.6	463.5	464.8	467.9	465.4	464.2	464.8
52.5°	402.3	407.2	406.0	407.2	404.1	402.9	403.5
55°	344.7	347.2	347.2	347.2	343.5	343.5	343.5
57.5°	285.9	286.6	285.3	285.9	285.3	281.6	281.0
60°	232.1	232.1	231.5	232.1	230.2	228.4	228.4
62.5°	181.3	182.6	185.0	182.6	181.3	182.6	180.7
65°	135.5	138.0	137.4	138.6	138.0	138.0	136.8
67.5°	102.1	102.7	103.3	104.0	104.0	104.0	104.0
70°	74.9	76.8	76.1	76.1	76.1	76.1	79.8
72.5°	50.1	52.6	52.0	53.2	53.2	54.5	53.2
75°	34.0	36.5	35.3	37.1	36.5	35.3	38.4
77.5°	22.9	24.1	24.8	25.4	24.8	24.1	24.8
80°	16.1	17.3	16.7	17.3	17.3	17.3	18.0
82.5°	9.9	11.8	11.1	11.8	11.1	11.8	11.8
85°	6.8	7.4	6.2	7.4	6.8	6.8	8.0
87.5°	4.3	3.7	3.7	4.3	3.7	4.3	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)