

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: P244532

Luminaire Tested: **LD8B20D010 ER8B20835 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244532
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 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2194.0 lumens
Efficiency: N/A
Efficacy: 103.0 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

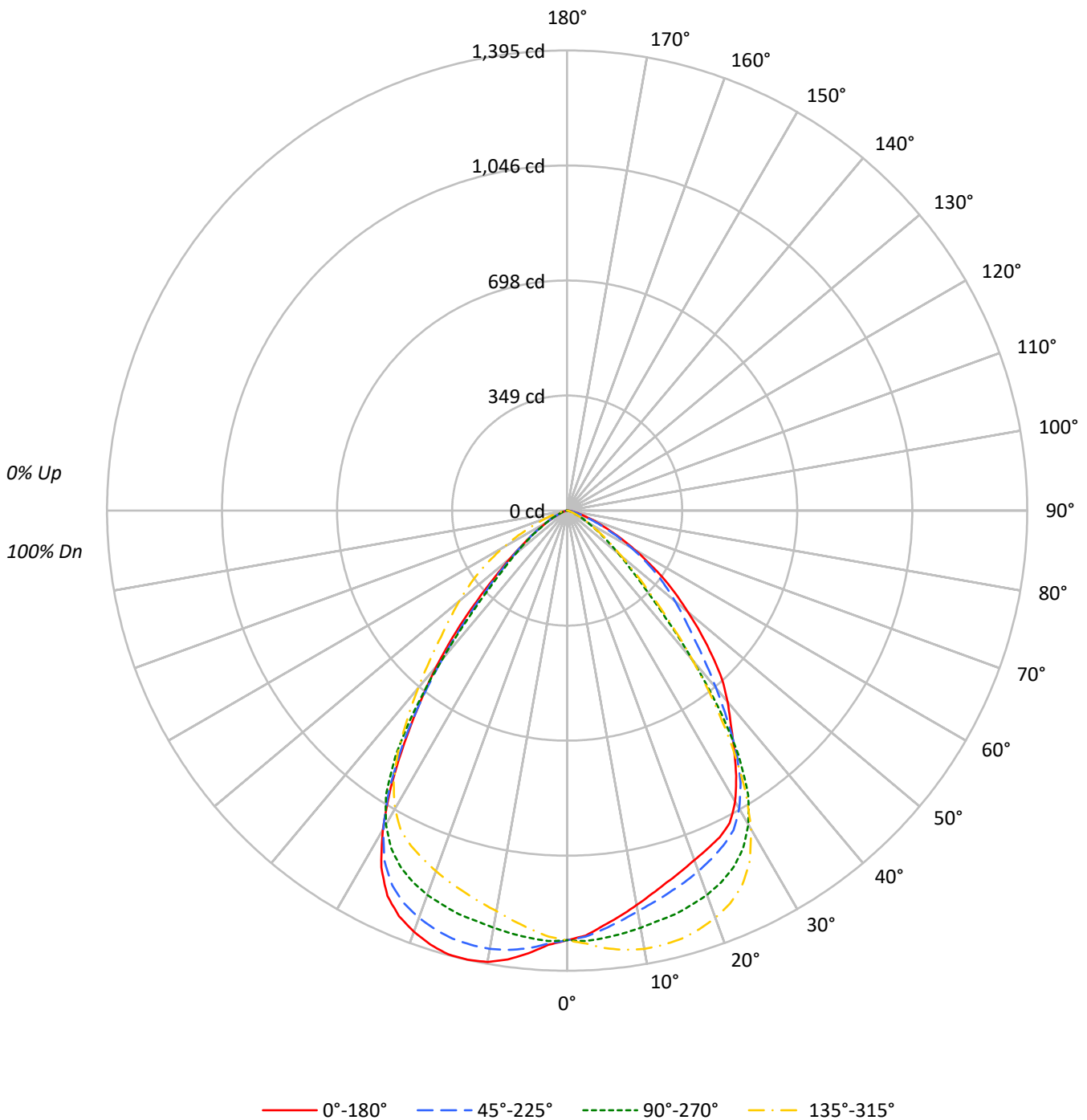
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	40164	40164	40164	40164
5°	39098	40259	41695	40259
10°	38016	40208	43511	40208
15°	37255	40445	44464	40445
20°	37003	40678	44580	40678
25°	37199	40594	43864	40594
30°	36276	39107	39812	39107
35°	33183	34117	32370	34117
40°	30464	23734	24784	23734
45°	27068	14478	16750	14478
50°	22912	9671	10741	9671
55°	18978	6597	6973	6597
60°	14475	4391	4434	4391
65°	10252	2736	2503	2736
70°	7393	1830	1668	1830
75°	4694	905	763	905
80°	3285	675	568	675
85°	2937	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.0	5.7
10°-20°	359.0	16.4
20°-30°	543.6	24.8
30°-40°	544.8	24.8
40°-50°	342.1	15.6
50°-60°	182.3	8.3
60°-70°	75.0	3.4
70°-80°	19.8	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°	1026.6	46.8
0°-40°	1571.4	71.6
0°-60°	2095.9	95.5
0°-90°	2194.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2194.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1302	1302	1302	1302	1302	
5°	1263	1301	1347	1301	1263	119
15°	1167	1267	1393	1267	1167	330
25°	1093	1193	1289	1193	1093	501
35°	882	906	860	906	882	552
45°	621	332	384	332	621	477
55°	353	123	130	123	353	315
65°	140	38	34	38	140	146
75°	39	8	6	8	39	45
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°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1289.2	1287.9	1287.2	1288.5	1289.2	1291.7	1291.1	1292.3	1292.3	1293.0	1294.2
5°	1263.1	1262.4	1263.1	1263.1	1265.6	1268.2	1267.5	1269.4	1270.7	1273.9	1275.2
7.5°	1238.9	1238.9	1238.3	1240.8	1242.1	1245.9	1245.3	1248.5	1250.4	1253.5	1258.0
10°	1214.1	1214.1	1214.7	1216.6	1217.3	1223.0	1223.0	1227.5	1230.0	1233.2	1238.9
12.5°	1189.9	1189.9	1193.8	1192.5	1195.0	1199.5	1201.4	1205.8	1209.7	1216.0	1221.7
15°	1167.0	1167.0	1168.3	1171.5	1173.4	1179.1	1182.3	1187.4	1191.9	1198.2	1206.5
17.5°	1147.3	1146.7	1147.3	1151.1	1155.0	1160.0	1162.6	1168.9	1173.4	1181.7	1189.3
20°	1127.6	1128.9	1128.9	1132.1	1134.6	1141.0	1143.5	1150.5	1155.6	1163.2	1172.1
22.5°	1110.4	1109.8	1109.8	1114.3	1116.2	1121.9	1124.4	1130.8	1136.5	1142.9	1151.1
25°	1093.3	1092.0	1094.6	1095.2	1096.4	1102.8	1104.7	1109.2	1114.9	1120.6	1128.9
27.5°	1067.8	1066.6	1067.2	1069.7	1071.6	1076.7	1078.0	1082.5	1086.9	1092.0	1099.0
30°	1018.8	1017.6	1017.0	1021.4	1023.3	1027.1	1029.0	1036.7	1037.9	1043.7	1048.7
32.5°	954.0	953.3	954.6	958.4	960.3	965.4	968.0	972.4	975.6	978.8	983.9
35°	881.5	880.2	881.5	885.3	885.3	889.8	891.7	893.6	892.9	893.6	892.3
37.5°	814.1	813.4	814.1	816.0	814.1	816.0	814.1	810.3	803.3	795.6	788.0
40°	756.8	757.5	753.7	756.2	749.2	747.9	740.9	731.4	717.4	702.1	680.5
42.5°	695.8	693.9	691.3	692.6	686.9	682.4	671.0	658.9	641.1	615.7	589.6
45°	620.7	620.1	618.8	618.2	614.4	609.9	600.4	586.4	566.7	540.6	509.4
47.5°	547.6	545.7	545.7	546.3	541.9	541.2	533.6	521.5	504.3	478.9	446.5
50°	477.6	477.0	478.3	480.8	477.6	476.4	471.3	463.0	447.7	426.1	395.6
52.5°	414.7	414.0	415.3	418.5	417.2	418.5	413.4	407.0	396.9	375.9	349.2
55°	353.0	353.0	353.0	356.8	356.8	356.8	354.2	350.4	340.9	325.6	300.8
57.5°	288.7	289.4	293.2	293.8	293.2	294.5	293.8	290.0	283.7	272.9	253.8
60°	234.7	234.7	236.6	238.5	237.9	238.5	238.5	236.6	230.2	221.3	206.1
62.5°	185.7	187.6	186.3	187.6	190.2	187.6	186.3	185.1	180.6	174.9	162.2
65°	140.5	141.8	141.8	142.5	141.2	141.8	139.3	137.4	134.8	128.5	120.2
67.5°	106.9	106.9	106.9	106.9	106.2	105.6	104.9	103.0	98.6	96.0	87.1
70°	82.0	78.2	78.2	78.2	78.2	78.9	77.0	74.4	73.1	68.7	62.3
72.5°	54.7	56.0	54.7	54.7	53.4	54.1	51.5	50.2	49.0	46.4	42.6
75°	39.4	36.3	37.5	38.2	36.3	37.5	35.0	32.4	32.4	30.5	28.6
77.5°	25.4	24.8	25.4	26.1	25.4	24.8	23.5	22.3	22.3	21.6	19.7
80°	18.5	17.8	17.8	17.8	17.2	17.8	16.5	16.5	15.3	14.6	13.4
82.5°	12.1	12.1	11.4	12.1	11.4	12.1	10.2	10.2	10.2	9.5	8.3
85°	8.3	7.0	7.0	7.6	6.4	7.6	7.0	6.4	5.7	5.7	5.1
87.5°	3.8	4.5	3.8	4.5	3.8	3.8	4.5	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°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1296.1	1296.8	1296.8	1299.3	1300.6	1301.2	1301.2	1306.3	1304.4	1305.7	1307.0
5°	1277.7	1281.5	1282.8	1282.8	1289.8	1292.3	1294.9	1300.6	1301.2	1305.0	1309.5
7.5°	1259.9	1264.3	1266.9	1272.6	1277.1	1281.5	1289.2	1293.0	1296.8	1301.9	1307.6
10°	1242.7	1247.8	1252.9	1257.4	1264.3	1270.1	1275.2	1284.1	1288.5	1295.5	1303.1
12.5°	1226.2	1233.2	1237.6	1245.3	1252.9	1258.0	1265.6	1273.9	1280.9	1287.9	1296.8
15°	1211.6	1219.8	1224.9	1233.2	1241.5	1248.5	1256.7	1266.9	1272.0	1280.3	1288.5
17.5°	1195.7	1204.6	1210.9	1218.6	1228.7	1236.4	1243.4	1253.5	1259.9	1268.8	1278.3
20°	1179.1	1188.0	1195.7	1203.3	1213.5	1221.1	1229.4	1239.6	1246.5	1255.4	1263.1
22.5°	1159.4	1167.7	1175.9	1184.8	1195.0	1201.4	1210.9	1219.8	1227.5	1235.7	1243.4
25°	1134.0	1144.2	1150.5	1158.8	1167.0	1174.0	1184.2	1193.1	1199.5	1207.1	1214.1
27.5°	1104.1	1111.7	1116.8	1123.8	1132.1	1138.4	1146.0	1155.0	1161.3	1168.3	1173.4
30°	1053.2	1060.2	1064.7	1069.7	1078.0	1083.7	1090.1	1098.3	1102.8	1107.9	1112.4
32.5°	986.4	992.1	994.7	998.5	1004.2	1009.9	1015.0	1022.0	1023.9	1027.1	1027.1
35°	889.8	891.0	890.4	891.7	894.2	897.4	901.8	906.3	908.8	908.8	906.9
37.5°	776.5	768.9	760.7	754.3	752.4	751.1	753.7	755.5	758.1	759.4	756.2
40°	658.9	641.7	623.3	606.7	595.3	590.2	588.3	589.6	589.6	594.0	594.0
42.5°	557.8	531.0	503.7	478.9	462.4	449.7	443.9	443.9	444.6	447.7	449.7
45°	473.8	440.1	408.3	381.0	358.1	341.5	333.9	332.0	331.4	332.6	337.1
47.5°	409.6	374.6	341.5	307.8	283.7	267.1	260.1	257.6	255.0	257.6	258.2
50°	359.3	323.1	288.1	254.4	229.0	214.3	205.4	201.6	201.0	201.0	202.3
52.5°	313.5	279.8	244.9	210.5	183.8	169.8	161.5	159.6	157.1	159.6	159.6
55°	270.3	236.6	202.3	169.8	147.5	132.9	125.3	122.7	121.5	123.4	123.4
57.5°	223.2	194.6	162.8	133.6	111.3	101.1	95.4	92.2	91.6	92.9	91.6
60°	183.2	159.0	131.6	104.9	87.8	77.0	72.5	71.2	69.9	71.2	71.2
62.5°	145.0	124.7	102.4	82.0	67.4	59.8	54.7	54.7	54.1	54.1	54.7
65°	107.5	91.6	75.7	58.5	47.1	41.3	37.5	37.5	36.9	37.5	36.9
67.5°	78.2	67.4	54.7	42.6	33.7	30.5	28.0	26.1	27.4	26.1	25.4
70°	57.3	48.3	39.4	32.4	26.1	22.9	21.0	20.3	19.1	19.1	19.1
72.5°	38.2	32.4	26.7	21.0	17.2	14.0	13.4	12.1	10.8	11.4	12.7
75°	25.4	21.6	19.1	15.3	11.4	11.4	7.6	7.6	6.4	7.6	5.7
77.5°	17.8	14.6	11.4	9.5	7.6	7.0	5.1	5.1	4.5	4.5	4.5
80°	12.7	10.8	8.3	7.0	5.1	5.1	4.5	3.8	3.2	3.2	3.8
82.5°	7.6	5.7	5.7	5.1	3.2	2.5	1.9	2.5	1.3	1.3	1.3
85°	4.5	3.8	3.2	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°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1310.2	1309.5	1310.8	1310.8	1314.6	1313.9	1315.9	1315.9	1314.6	1315.2	1317.8
5°	1314.6	1316.5	1320.3	1323.5	1329.2	1331.8	1334.9	1338.1	1338.8	1340.7	1342.6
7.5°	1314.6	1321.0	1325.4	1331.1	1338.8	1343.2	1350.2	1355.9	1358.5	1361.6	1365.5
10°	1312.0	1318.4	1326.7	1333.0	1342.6	1349.6	1356.6	1365.5	1369.3	1374.4	1379.5
12.5°	1307.0	1313.9	1322.8	1331.1	1341.9	1348.3	1357.2	1365.5	1371.2	1378.2	1383.9
15°	1299.3	1307.6	1315.9	1324.1	1335.6	1343.2	1351.5	1361.0	1366.7	1374.4	1379.5
17.5°	1287.2	1296.1	1303.8	1311.4	1322.2	1331.1	1338.8	1347.7	1353.4	1359.8	1366.7
20°	1272.6	1280.9	1289.2	1295.5	1306.3	1313.9	1322.2	1330.5	1334.9	1336.2	1347.0
22.5°	1254.2	1259.9	1266.3	1276.4	1282.8	1289.8	1297.4	1305.0	1309.5	1316.5	1320.3
25°	1223.6	1229.4	1236.4	1240.8	1248.5	1254.2	1261.8	1270.1	1272.6	1277.7	1281.5
27.5°	1181.0	1184.2	1187.4	1191.2	1195.7	1198.8	1203.3	1207.1	1209.7	1212.2	1214.7
30°	1113.6	1113.6	1113.6	1111.1	1113.0	1114.9	1115.5	1114.9	1114.9	1114.3	1114.3
32.5°	1024.6	1019.5	1013.8	1008.7	1006.8	1004.2	1003.0	1001.0	997.9	996.0	996.6
35°	904.4	892.9	885.9	879.6	874.5	870.7	868.8	866.9	866.2	863.7	861.1
37.5°	754.3	746.0	740.9	737.1	732.7	728.8	729.5	730.1	732.0	730.8	731.4
40°	595.3	593.4	595.3	590.8	589.6	590.8	594.0	598.5	601.0	603.6	608.0
42.5°	452.8	456.0	460.5	460.5	462.4	464.9	468.7	475.7	479.5	484.0	489.1
45°	340.9	344.7	350.4	352.3	353.6	356.8	361.3	367.0	369.5	373.3	377.8
47.5°	262.7	265.2	268.4	271.6	274.7	276.0	280.5	280.5	283.7	286.2	287.5
50°	204.8	207.3	209.9	211.8	213.1	215.0	216.2	218.1	218.8	220.1	220.7
52.5°	160.3	163.5	163.5	164.7	166.6	168.5	167.9	168.5	169.2	169.2	171.1
55°	125.3	125.3	127.2	127.2	128.5	127.8	128.5	128.5	128.5	128.5	129.1
57.5°	93.5	94.1	96.0	94.8	94.1	95.4	94.1	95.4	94.8	96.0	94.1
60°	71.9	71.9	72.5	72.5	73.1	73.1	73.1	72.5	72.5	71.9	71.9
62.5°	54.1	54.7	55.3	54.7	54.7	54.7	54.1	54.1	53.4	52.8	52.8
65°	36.3	35.6	36.9	35.6	36.3	36.3	35.6	36.3	34.3	35.0	34.3
67.5°	26.1	25.4	24.8	25.4	24.8	24.2	24.2	24.8	25.4	23.5	23.5
70°	17.2	17.8	17.2	17.8	18.5	18.5	17.8	17.2	17.8	16.5	17.2
72.5°	10.8	10.8	10.8	10.8	10.8	11.4	11.4	11.4	10.2	10.2	9.5
75°	5.1	7.0	5.7	5.1	7.0	7.0	6.4	6.4	5.7	5.7	5.7
77.5°	5.1	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.2	3.8	3.2
80°	2.5	2.5	2.5	1.9	2.5	2.5	3.2	2.5	2.5	1.9	3.2
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: P244532

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1317.1	1316.5	1317.1	1317.8	1317.1	1316.5	1317.1	1317.8	1315.2	1314.6	1315.9
5°	1345.1	1345.1	1346.4	1347.0	1346.4	1345.1	1345.1	1342.6	1340.7	1338.8	1338.1
7.5°	1369.3	1370.6	1371.8	1372.5	1371.8	1370.6	1369.3	1365.5	1361.6	1358.5	1355.9
10°	1383.9	1385.8	1388.4	1389.6	1388.4	1385.8	1383.9	1379.5	1374.4	1369.3	1365.5
12.5°	1390.3	1392.2	1395.4	1394.7	1395.4	1392.2	1390.3	1383.9	1378.2	1371.2	1365.5
15°	1385.8	1388.4	1391.5	1392.8	1391.5	1388.4	1385.8	1379.5	1374.4	1366.7	1361.0
17.5°	1371.8	1375.6	1377.6	1379.5	1377.6	1375.6	1371.8	1366.7	1359.8	1353.4	1347.7
20°	1352.7	1355.3	1357.8	1358.5	1357.8	1355.3	1352.7	1347.0	1336.2	1334.9	1330.5
22.5°	1325.4	1327.3	1333.0	1331.1	1333.0	1327.3	1325.4	1320.3	1316.5	1309.5	1305.0
25°	1286.0	1287.9	1288.5	1289.2	1288.5	1287.9	1286.0	1281.5	1277.7	1272.6	1270.1
27.5°	1217.9	1217.9	1219.2	1219.8	1219.2	1217.9	1217.9	1214.7	1212.2	1209.7	1207.1
30°	1114.9	1114.9	1114.9	1118.1	1114.9	1114.9	1114.9	1114.3	1114.3	1114.9	1114.9
32.5°	996.0	994.7	993.4	994.7	993.4	994.7	996.0	996.6	996.0	997.9	1001.0
35°	861.1	860.5	862.4	859.9	862.4	860.5	861.1	861.1	863.7	866.2	866.9
37.5°	732.0	730.8	733.3	730.8	733.3	730.8	732.0	731.4	730.8	732.0	730.1
40°	609.3	610.5	610.5	615.7	610.5	610.5	609.3	608.0	603.6	601.0	598.5
42.5°	491.6	495.4	494.2	498.0	494.2	495.4	491.6	489.1	484.0	479.5	475.7
45°	380.3	382.9	382.9	384.1	382.9	382.9	380.3	377.8	373.3	369.5	367.0
47.5°	291.9	291.9	291.9	292.6	291.9	291.9	291.9	287.5	286.2	283.7	280.5
50°	222.0	222.6	223.2	223.9	223.2	222.6	222.0	220.7	220.1	218.8	218.1
52.5°	170.4	171.1	169.8	171.1	169.8	171.1	170.4	171.1	169.2	169.2	168.5
55°	129.1	128.5	129.1	129.7	129.1	128.5	129.1	129.1	128.5	128.5	128.5
57.5°	94.8	93.5	93.5	93.5	93.5	93.5	94.8	94.1	96.0	94.8	95.4
60°	70.6	71.2	71.2	71.9	71.2	71.2	70.6	71.9	71.9	72.5	72.5
62.5°	52.1	54.1	52.8	54.1	52.8	54.1	52.1	52.8	52.8	53.4	54.1
65°	33.7	33.7	33.7	34.3	33.7	33.7	33.7	34.3	35.0	34.3	36.3
67.5°	22.9	23.5	24.8	24.2	24.8	23.5	22.9	23.5	23.5	25.4	24.8
70°	18.5	16.5	16.5	18.5	16.5	16.5	18.5	17.2	16.5	17.8	17.2
72.5°	10.8	9.5	10.8	10.8	10.8	9.5	10.8	9.5	10.2	10.2	11.4
75°	5.7	5.1	4.5	6.4	4.5	5.1	5.7	5.7	5.7	5.7	6.4
77.5°	3.8	3.2	4.5	4.5	4.5	3.2	3.8	3.2	3.8	3.2	3.8
80°	1.9	2.5	1.9	3.2	1.9	2.5	1.9	3.2	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: P244532

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1315.9	1313.9	1314.6	1310.8	1310.8	1309.5	1310.2	1307.0	1305.7	1304.4	1306.3
5°	1334.9	1331.8	1329.2	1323.5	1320.3	1316.5	1314.6	1309.5	1305.0	1301.2	1300.6
7.5°	1350.2	1343.2	1338.8	1331.1	1325.4	1321.0	1314.6	1307.6	1301.9	1296.8	1293.0
10°	1356.6	1349.6	1342.6	1333.0	1326.7	1318.4	1312.0	1303.1	1295.5	1288.5	1284.1
12.5°	1357.2	1348.3	1341.9	1331.1	1322.8	1313.9	1307.0	1296.8	1287.9	1280.9	1273.9
15°	1351.5	1343.2	1335.6	1324.1	1315.9	1307.6	1299.3	1288.5	1280.3	1272.0	1266.9
17.5°	1338.8	1331.1	1322.2	1311.4	1303.8	1296.1	1287.2	1278.3	1268.8	1259.9	1253.5
20°	1322.2	1313.9	1306.3	1295.5	1289.2	1280.9	1272.6	1263.1	1255.4	1246.5	1239.6
22.5°	1297.4	1289.8	1282.8	1276.4	1266.3	1259.9	1254.2	1243.4	1235.7	1227.5	1219.8
25°	1261.8	1254.2	1248.5	1240.8	1236.4	1229.4	1223.6	1214.1	1207.1	1199.5	1193.1
27.5°	1203.3	1198.8	1195.7	1191.2	1187.4	1184.2	1181.0	1173.4	1168.3	1161.3	1155.0
30°	1115.5	1114.9	1113.0	1111.1	1113.6	1113.6	1113.6	1112.4	1107.9	1102.8	1098.3
32.5°	1003.0	1004.2	1006.8	1008.7	1013.8	1019.5	1024.6	1027.1	1027.1	1023.9	1022.0
35°	868.8	870.7	874.5	879.6	885.9	892.9	904.4	906.9	908.8	908.8	906.3
37.5°	729.5	728.8	732.7	737.1	740.9	746.0	754.3	756.2	759.4	758.1	755.5
40°	594.0	590.8	589.6	590.8	595.3	593.4	595.3	594.0	594.0	589.6	589.6
42.5°	468.7	464.9	462.4	460.5	460.5	456.0	452.8	449.7	447.7	444.6	443.9
45°	361.3	356.8	353.6	352.3	350.4	344.7	340.9	337.1	332.6	331.4	332.0
47.5°	280.5	276.0	274.7	271.6	268.4	265.2	262.7	258.2	257.6	255.0	257.6
50°	216.2	215.0	213.1	211.8	209.9	207.3	204.8	202.3	201.0	201.0	201.6
52.5°	167.9	168.5	166.6	164.7	163.5	163.5	160.3	159.6	159.6	157.1	159.6
55°	128.5	127.8	128.5	127.2	127.2	125.3	125.3	123.4	123.4	121.5	122.7
57.5°	94.1	95.4	94.1	94.8	96.0	94.1	93.5	91.6	92.9	91.6	92.2
60°	73.1	73.1	73.1	72.5	72.5	71.9	71.9	71.2	71.2	69.9	71.2
62.5°	54.1	54.7	54.7	54.7	55.3	54.7	54.1	54.7	54.1	54.1	54.7
65°	35.6	36.3	36.3	35.6	36.9	35.6	36.3	36.9	37.5	36.9	37.5
67.5°	24.2	24.2	24.8	25.4	24.8	25.4	26.1	25.4	26.1	27.4	26.1
70°	17.8	18.5	18.5	17.8	17.2	17.8	17.2	19.1	19.1	19.1	20.3
72.5°	11.4	11.4	10.8	10.8	10.8	10.8	10.8	12.7	11.4	10.8	12.1
75°	6.4	7.0	7.0	5.1	5.7	7.0	5.1	5.7	7.6	6.4	7.6
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.1	4.5	4.5	4.5	5.1
80°	3.2	2.5	2.5	1.9	2.5	2.5	2.5	3.8	3.2	3.2	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: P244532

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1301.2	1301.2	1300.6	1299.3	1296.8	1296.8	1296.1	1294.2	1293.0	1292.3	1292.3
5°	1294.9	1292.3	1289.8	1282.8	1282.8	1281.5	1277.7	1275.2	1273.9	1270.7	1269.4
7.5°	1289.2	1281.5	1277.1	1272.6	1266.9	1264.3	1259.9	1258.0	1253.5	1250.4	1248.5
10°	1275.2	1270.1	1264.3	1257.4	1252.9	1247.8	1242.7	1238.9	1233.2	1230.0	1227.5
12.5°	1265.6	1258.0	1252.9	1245.3	1237.6	1233.2	1226.2	1221.7	1216.0	1209.7	1205.8
15°	1256.7	1248.5	1241.5	1233.2	1224.9	1219.8	1211.6	1206.5	1198.2	1191.9	1187.4
17.5°	1243.4	1236.4	1228.7	1218.6	1210.9	1204.6	1195.7	1189.3	1181.7	1173.4	1168.9
20°	1229.4	1221.1	1213.5	1203.3	1195.7	1188.0	1179.1	1172.1	1163.2	1155.6	1150.5
22.5°	1210.9	1201.4	1195.0	1184.8	1175.9	1167.7	1159.4	1151.1	1142.9	1136.5	1130.8
25°	1184.2	1174.0	1167.0	1158.8	1150.5	1144.2	1134.0	1128.9	1120.6	1114.9	1109.2
27.5°	1146.0	1138.4	1132.1	1123.8	1116.8	1111.7	1104.1	1099.0	1092.0	1086.9	1082.5
30°	1090.1	1083.7	1078.0	1069.7	1064.7	1060.2	1053.2	1048.7	1043.7	1037.9	1036.7
32.5°	1015.0	1009.9	1004.2	998.5	994.7	992.1	986.4	983.9	978.8	975.6	972.4
35°	901.8	897.4	894.2	891.7	890.4	891.0	889.8	892.3	893.6	892.9	893.6
37.5°	753.7	751.1	752.4	754.3	760.7	768.9	776.5	788.0	795.6	803.3	810.3
40°	588.3	590.2	595.3	606.7	623.3	641.7	658.9	680.5	702.1	717.4	731.4
42.5°	443.9	449.7	462.4	478.9	503.7	531.0	557.8	589.6	615.7	641.1	658.9
45°	333.9	341.5	358.1	381.0	408.3	440.1	473.8	509.4	540.6	566.7	586.4
47.5°	260.1	267.1	283.7	307.8	341.5	374.6	409.6	446.5	478.9	504.3	521.5
50°	205.4	214.3	229.0	254.4	288.1	323.1	359.3	395.6	426.1	447.7	463.0
52.5°	161.5	169.8	183.8	210.5	244.9	279.8	313.5	349.2	375.9	396.9	407.0
55°	125.3	132.9	147.5	169.8	202.3	236.6	270.3	300.8	325.6	340.9	350.4
57.5°	95.4	101.1	111.3	133.6	162.8	194.6	223.2	253.8	272.9	283.7	290.0
60°	72.5	77.0	87.8	104.9	131.6	159.0	183.2	206.1	221.3	230.2	236.6
62.5°	54.7	59.8	67.4	82.0	102.4	124.7	145.0	162.2	174.9	180.6	185.1
65°	37.5	41.3	47.1	58.5	75.7	91.6	107.5	120.2	128.5	134.8	137.4
67.5°	28.0	30.5	33.7	42.6	54.7	67.4	78.2	87.1	96.0	98.6	103.0
70°	21.0	22.9	26.1	32.4	39.4	48.3	57.3	62.3	68.7	73.1	74.4
72.5°	13.4	14.0	17.2	21.0	26.7	32.4	38.2	42.6	46.4	49.0	50.2
75°	7.6	11.4	11.4	15.3	19.1	21.6	25.4	28.6	30.5	32.4	32.4
77.5°	5.1	7.0	7.6	9.5	11.4	14.6	17.8	19.7	21.6	22.3	22.3
80°	4.5	5.1	5.1	7.0	8.3	10.8	12.7	13.4	14.6	15.3	16.5
82.5°	1.9	2.5	3.2	5.1	5.7	5.7	7.6	8.3	9.5	10.2	10.2
85°	0.6	1.3	1.3	1.9	3.2	3.8	4.5	5.1	5.7	5.7	6.4
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: P244532

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5	1302.5
2.5°	1291.1	1291.7	1289.2	1288.5	1287.2	1287.9	1289.2
5°	1267.5	1268.2	1265.6	1263.1	1263.1	1262.4	1263.1
7.5°	1245.3	1245.9	1242.1	1240.8	1238.3	1238.9	1238.9
10°	1223.0	1223.0	1217.3	1216.6	1214.7	1214.1	1214.1
12.5°	1201.4	1199.5	1195.0	1192.5	1193.8	1189.9	1189.9
15°	1182.3	1179.1	1173.4	1171.5	1168.3	1167.0	1167.0
17.5°	1162.6	1160.0	1155.0	1151.1	1147.3	1146.7	1147.3
20°	1143.5	1141.0	1134.6	1132.1	1128.9	1128.9	1127.6
22.5°	1124.4	1121.9	1116.2	1114.3	1109.8	1109.8	1110.4
25°	1104.7	1102.8	1096.4	1095.2	1094.6	1092.0	1093.3
27.5°	1078.0	1076.7	1071.6	1069.7	1067.2	1066.6	1067.8
30°	1029.0	1027.1	1023.3	1021.4	1017.0	1017.6	1018.8
32.5°	968.0	965.4	960.3	958.4	954.6	953.3	954.0
35°	891.7	889.8	885.3	885.3	881.5	880.2	881.5
37.5°	814.1	816.0	814.1	816.0	814.1	813.4	814.1
40°	740.9	747.9	749.2	756.2	753.7	757.5	756.8
42.5°	671.0	682.4	686.9	692.6	691.3	693.9	695.8
45°	600.4	609.9	614.4	618.2	618.8	620.1	620.7
47.5°	533.6	541.2	541.9	546.3	545.7	545.7	547.6
50°	471.3	476.4	477.6	480.8	478.3	477.0	477.6
52.5°	413.4	418.5	417.2	418.5	415.3	414.0	414.7
55°	354.2	356.8	356.8	356.8	353.0	353.0	353.0
57.5°	293.8	294.5	293.2	293.8	293.2	289.4	288.7
60°	238.5	238.5	237.9	238.5	236.6	234.7	234.7
62.5°	186.3	187.6	190.2	187.6	186.3	187.6	185.7
65°	139.3	141.8	141.2	142.5	141.8	141.8	140.5
67.5°	104.9	105.6	106.2	106.9	106.9	106.9	106.9
70°	77.0	78.9	78.2	78.2	78.2	78.2	82.0
72.5°	51.5	54.1	53.4	54.7	54.7	56.0	54.7
75°	35.0	37.5	36.3	38.2	37.5	36.3	39.4
77.5°	23.5	24.8	25.4	26.1	25.4	24.8	25.4
80°	16.5	17.8	17.2	17.8	17.8	17.8	18.5
82.5°	10.2	12.1	11.4	12.1	11.4	12.1	12.1
85°	7.0	7.6	6.4	7.6	7.0	7.0	8.3
87.5°	4.5	3.8	3.8	4.5	3.8	4.5	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)