

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: P245019

Luminaire Tested: **LD8B30D010 ER8B309730 8LBSW0WMH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245019  
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 ER8B309730 8LBSW0WMH  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
97 CRI 3000 CCT WITH WARM HAZE TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2259.0 lumens  
Efficiency: N/A  
Efficacy: 83.4 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

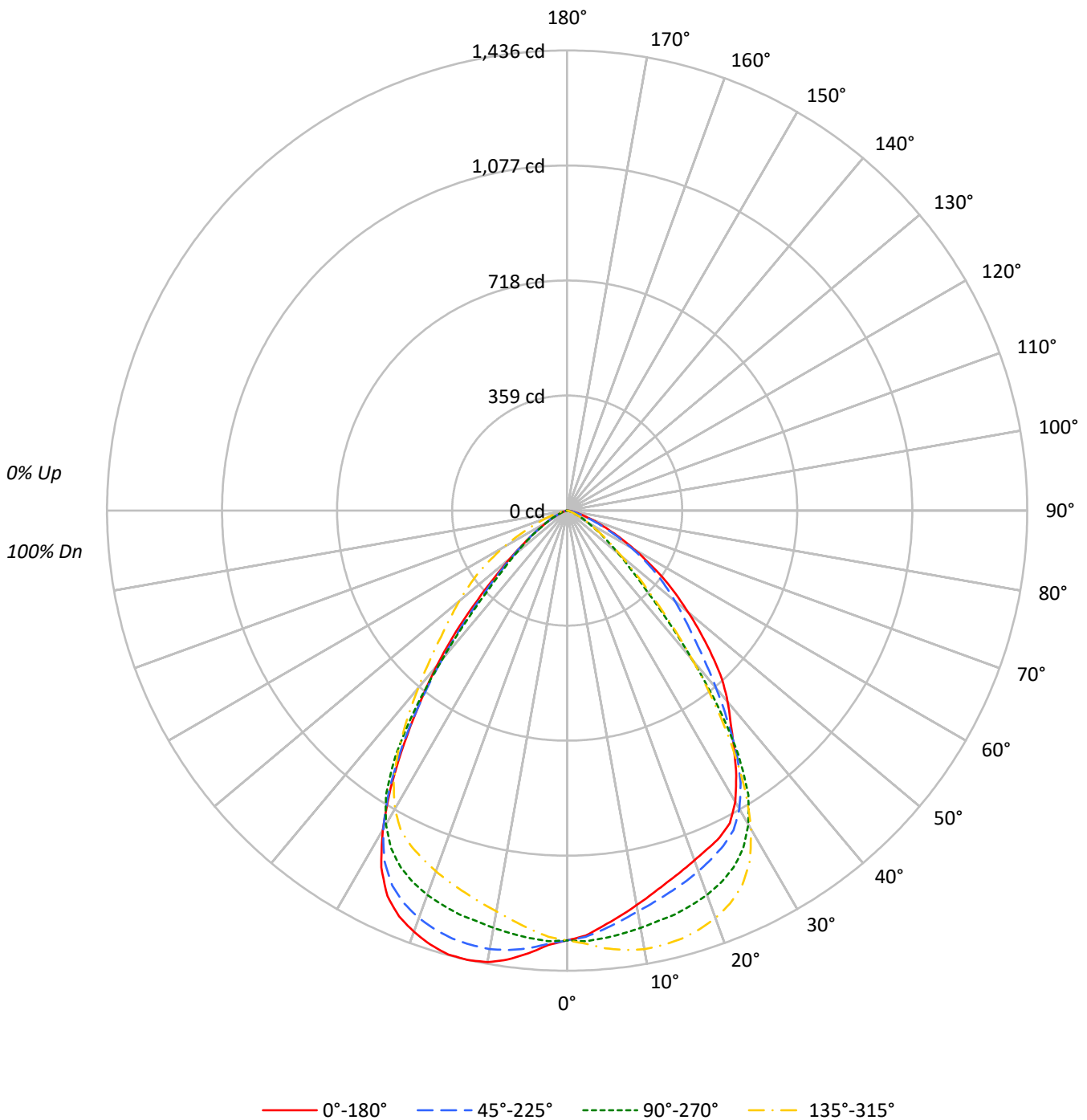
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	127.6	5.7
10°-20°	369.6	16.4
20°-30°	559.7	24.8
30°-40°	561.0	24.8
40°-50°	352.3	15.6
50°-60°	187.7	8.3
60°-70°	77.2	3.4
70°-80°	20.4	0.9
80°-90°	3.4	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°	1057.0	46.8
0°-40°	1618.0	71.6
0°-60°	2158.0	95.5
0°-90°	2259.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2259.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1341	1341	1341	1341	1341	
5°	1300	1339	1387	1339	1300	123
15°	1202	1304	1434	1304	1202	340
25°	1126	1228	1327	1228	1126	516
35°	908	933	885	933	908	569
45°	639	342	396	342	639	492
55°	363	126	134	126	363	324
65°	145	39	35	39	145	150
75°	41	8	6	8	41	46
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°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1327.4	1326.0	1325.4	1326.7	1327.4	1330.0	1329.3	1330.6	1330.6	1331.3	1332.6
5°	1300.5	1299.8	1300.5	1300.5	1303.1	1305.7	1305.1	1307.1	1308.3	1311.6	1312.9
7.5°	1275.6	1275.6	1275.0	1277.6	1278.9	1282.8	1282.1	1285.4	1287.4	1290.7	1295.2
10°	1250.1	1250.1	1250.7	1252.7	1253.4	1259.2	1259.2	1263.8	1266.4	1269.7	1275.6
12.5°	1225.2	1225.2	1229.1	1227.8	1230.4	1235.0	1237.0	1241.6	1245.5	1252.0	1257.9
15°	1201.6	1201.6	1202.9	1206.2	1208.2	1214.1	1217.3	1222.6	1227.2	1233.7	1242.2
17.5°	1181.3	1180.7	1181.3	1185.3	1189.2	1194.4	1197.0	1203.6	1208.2	1216.7	1224.5
20°	1161.0	1162.3	1162.3	1165.6	1168.2	1174.8	1177.4	1184.6	1189.8	1197.7	1206.9
22.5°	1143.3	1142.7	1142.7	1147.3	1149.2	1155.1	1157.7	1164.3	1170.2	1176.7	1185.3
25°	1125.7	1124.3	1127.0	1127.6	1128.9	1135.5	1137.4	1142.0	1147.9	1153.8	1162.3
27.5°	1099.5	1098.2	1098.8	1101.4	1103.4	1108.6	1109.9	1114.5	1119.1	1124.3	1131.6
30°	1049.0	1047.7	1047.1	1051.7	1053.6	1057.5	1059.5	1067.4	1068.7	1074.6	1079.8
32.5°	982.2	981.6	982.9	986.8	988.8	994.0	996.7	1001.2	1004.5	1007.8	1013.0
35°	907.6	906.3	907.6	911.5	911.5	916.1	918.1	920.0	919.4	920.0	918.7
37.5°	838.2	837.5	838.2	840.1	838.2	840.1	838.2	834.3	827.1	819.2	811.3
40°	779.3	779.9	776.0	778.6	771.4	770.1	762.9	753.1	738.7	722.9	700.7
42.5°	716.4	714.4	711.8	713.1	707.2	702.6	690.8	678.4	660.1	633.9	607.0
45°	639.1	638.5	637.2	636.5	632.6	628.0	618.2	603.8	583.5	556.6	524.5
47.5°	563.8	561.8	561.8	562.5	557.9	557.3	549.4	537.0	519.3	493.1	459.7
50°	491.8	491.1	492.4	495.1	491.8	490.5	485.2	476.7	461.0	438.7	407.3
52.5°	426.9	426.3	427.6	430.9	429.6	430.9	425.6	419.1	408.6	387.0	359.5
55°	363.4	363.4	363.4	367.3	367.3	367.3	364.7	360.8	351.0	335.3	309.7
57.5°	297.3	297.9	301.9	302.5	301.9	303.2	302.5	298.6	292.1	280.9	261.3
60°	241.6	241.6	243.6	245.6	244.9	245.6	245.6	243.6	237.1	227.9	212.2
62.5°	191.2	193.2	191.9	193.2	195.8	193.2	191.9	190.6	186.0	180.1	167.0
65°	144.7	146.0	146.0	146.7	145.4	146.0	143.4	141.5	138.8	132.3	123.8
67.5°	110.0	110.0	110.0	110.0	109.4	108.7	108.1	106.1	101.5	98.9	89.7
70°	84.5	80.5	80.5	80.5	80.5	81.2	79.2	76.6	75.3	70.7	64.2
72.5°	56.3	57.6	56.3	56.3	55.0	55.7	53.0	51.7	50.4	47.8	43.9
75°	40.6	37.3	38.6	39.3	37.3	38.6	36.0	33.4	33.4	31.4	29.5
77.5°	26.2	25.6	26.2	26.8	26.2	25.6	24.2	22.9	22.9	22.3	20.3
80°	19.0	18.3	18.3	18.3	17.7	18.3	17.0	17.0	15.7	15.1	13.7
82.5°	12.5	12.5	11.8	12.5	11.8	12.5	10.5	10.5	10.5	9.8	8.5
85°	8.5	7.2	7.2	7.9	6.5	7.9	7.2	6.5	5.9	5.9	5.2
87.5°	3.9	4.6	3.9	4.6	3.9	3.9	4.6	3.9	3.9	2.6	2.6
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°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1334.5	1335.2	1335.2	1337.8	1339.1	1339.8	1339.8	1345.0	1343.1	1344.4	1345.7
5°	1315.6	1319.5	1320.8	1320.8	1328.0	1330.6	1333.2	1339.1	1339.8	1343.7	1348.3
7.5°	1297.2	1301.8	1304.4	1310.3	1314.9	1319.5	1327.4	1331.3	1335.2	1340.4	1346.3
10°	1279.5	1284.8	1290.0	1294.6	1301.8	1307.7	1312.9	1322.1	1326.7	1333.9	1341.7
12.5°	1262.5	1269.7	1274.3	1282.1	1290.0	1295.2	1303.1	1311.6	1318.8	1326.0	1335.2
15°	1247.5	1256.0	1261.2	1269.7	1278.2	1285.4	1294.0	1304.4	1309.7	1318.2	1326.7
17.5°	1231.1	1240.3	1246.8	1254.7	1265.1	1273.0	1280.2	1290.7	1297.2	1306.4	1316.2
20°	1214.1	1223.2	1231.1	1238.9	1249.4	1257.3	1265.8	1276.3	1283.5	1292.6	1300.5
22.5°	1193.8	1202.3	1210.8	1219.9	1230.4	1237.0	1246.8	1256.0	1263.8	1272.3	1280.2
25°	1167.6	1178.1	1184.6	1193.1	1201.6	1208.8	1219.3	1228.5	1235.0	1242.9	1250.1
27.5°	1136.8	1144.7	1149.9	1157.1	1165.6	1172.2	1180.0	1189.2	1195.7	1202.9	1208.2
30°	1084.4	1091.6	1096.2	1101.4	1109.9	1115.8	1122.4	1130.9	1135.5	1140.7	1145.3
32.5°	1015.6	1021.5	1024.2	1028.1	1034.0	1039.9	1045.1	1052.3	1054.3	1057.5	1057.5
35°	916.1	917.4	916.8	918.1	920.7	924.0	928.5	933.1	935.7	935.7	933.8
37.5°	799.5	791.7	783.2	776.6	774.7	773.3	776.0	777.9	780.6	781.9	778.6
40°	678.4	660.7	641.7	624.7	612.9	607.7	605.7	607.0	607.0	611.6	611.6
42.5°	574.3	546.8	518.6	493.1	476.1	463.0	457.1	457.1	457.7	461.0	463.0
45°	487.9	453.1	420.4	392.3	368.7	351.6	343.8	341.8	341.2	342.5	347.1
47.5°	421.7	385.7	351.6	316.9	292.1	275.0	267.8	265.2	262.6	265.2	265.9
50°	370.0	332.7	296.6	261.9	235.7	220.7	211.5	207.6	206.9	206.9	208.2
52.5°	322.8	288.1	252.1	216.8	189.2	174.8	166.3	164.4	161.7	164.4	164.4
55°	278.3	243.6	208.2	174.8	151.9	136.9	129.0	126.4	125.1	127.0	127.0
57.5°	229.9	200.4	167.7	137.5	114.6	104.1	98.2	95.0	94.3	95.6	94.3
60°	188.6	163.7	135.5	108.1	90.4	79.2	74.7	73.3	72.0	73.3	73.3
62.5°	149.3	128.4	105.4	84.5	69.4	61.6	56.3	56.3	55.7	55.7	56.3
65°	110.7	94.3	77.9	60.2	48.5	42.6	38.6	38.6	38.0	38.6	38.0
67.5°	80.5	69.4	56.3	43.9	34.7	31.4	28.8	26.8	28.2	26.8	26.2
70°	58.9	49.8	40.6	33.4	26.8	23.6	21.6	20.9	19.6	19.6	19.6
72.5°	39.3	33.4	27.5	21.6	17.7	14.4	13.7	12.5	11.1	11.8	13.1
75°	26.2	22.3	19.6	15.7	11.8	11.8	7.9	7.9	6.5	7.9	5.9
77.5°	18.3	15.1	11.8	9.8	7.9	7.2	5.2	5.2	4.6	4.6	4.6
80°	13.1	11.1	8.5	7.2	5.2	5.2	4.6	3.9	3.3	3.3	3.9
82.5°	7.9	5.9	5.9	5.2	3.3	2.6	2.0	2.6	1.3	1.3	1.3
85°	4.6	3.9	3.3	2.0	1.3	1.3	0.6	0.0	0.6	0.6	0.0
87.5°	2.6	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°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1349.0	1348.3	1349.6	1349.6	1353.5	1352.9	1354.8	1354.8	1353.5	1354.2	1356.8
5°	1353.5	1355.5	1359.4	1362.7	1368.6	1371.2	1374.5	1377.8	1378.4	1380.4	1382.4
7.5°	1353.5	1360.1	1364.7	1370.6	1378.4	1383.0	1390.2	1396.1	1398.7	1402.0	1405.9
10°	1350.9	1357.5	1366.0	1372.5	1382.4	1389.6	1396.8	1405.9	1409.9	1415.1	1420.3
12.5°	1345.7	1352.9	1362.0	1370.6	1381.7	1388.2	1397.4	1405.9	1411.8	1419.0	1424.9
15°	1337.8	1346.3	1354.8	1363.4	1375.1	1383.0	1391.5	1401.3	1407.2	1415.1	1420.3
17.5°	1325.4	1334.5	1342.4	1350.3	1361.4	1370.6	1378.4	1387.6	1393.5	1400.0	1407.2
20°	1310.3	1318.8	1327.4	1333.9	1345.0	1352.9	1361.4	1369.9	1374.5	1375.8	1386.9
22.5°	1291.3	1297.2	1303.8	1314.3	1320.8	1328.0	1335.9	1343.7	1348.3	1355.5	1359.4
25°	1259.9	1265.8	1273.0	1277.6	1285.4	1291.3	1299.2	1307.7	1310.3	1315.6	1319.5
27.5°	1216.0	1219.3	1222.6	1226.5	1231.1	1234.4	1238.9	1242.9	1245.5	1248.1	1250.7
30°	1146.6	1146.6	1146.6	1144.0	1146.0	1147.9	1148.6	1147.9	1147.9	1147.3	1147.3
32.5°	1054.9	1049.7	1043.8	1038.6	1036.6	1034.0	1032.7	1030.7	1027.4	1025.5	1026.1
35°	931.2	919.4	912.2	905.6	900.4	896.5	894.5	892.5	891.9	889.3	886.6
37.5°	776.6	768.1	762.9	759.0	754.4	750.4	751.1	751.8	753.7	752.4	753.1
40°	612.9	611.0	612.9	608.3	607.0	608.3	611.6	616.2	618.8	621.4	626.0
42.5°	466.2	469.5	474.1	474.1	476.1	478.7	482.6	489.8	493.7	498.3	503.6
45°	351.0	354.9	360.8	362.8	364.1	367.3	372.0	377.8	380.4	384.4	389.0
47.5°	270.5	273.1	276.3	279.6	282.9	284.2	288.8	288.8	292.1	294.7	296.0
50°	210.9	213.5	216.1	218.1	219.4	221.3	222.6	224.6	225.3	226.6	227.2
52.5°	165.0	168.3	168.3	169.6	171.6	173.5	172.9	173.5	174.2	174.2	176.1
55°	129.0	129.0	131.0	131.0	132.3	131.6	132.3	132.3	132.3	132.3	132.9
57.5°	96.3	96.9	98.9	97.6	96.9	98.2	96.9	98.2	97.6	98.9	96.9
60°	74.0	74.0	74.7	74.7	75.3	75.3	75.3	74.7	74.7	74.0	74.0
62.5°	55.7	56.3	57.0	56.3	56.3	56.3	55.7	55.7	55.0	54.3	54.3
65°	37.3	36.7	38.0	36.7	37.3	37.3	36.7	37.3	35.4	36.0	35.4
67.5°	26.8	26.2	25.6	26.2	25.6	24.9	24.9	25.6	26.2	24.2	24.2
70°	17.7	18.3	17.7	18.3	19.0	19.0	18.3	17.7	18.3	17.0	17.7
72.5°	11.1	11.1	11.1	11.1	11.1	11.8	11.8	11.8	10.5	10.5	9.8
75°	5.2	7.2	5.9	5.2	7.2	7.2	6.5	6.5	5.9	5.9	5.9
77.5°	5.2	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.3	3.9	3.3
80°	2.6	2.6	2.6	2.0	2.6	2.6	3.3	2.6	2.6	2.0	3.3
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: P245019

CATALOG NUMBER: LD8B30D010 ER8B309730 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1356.2	1355.5	1356.2	1356.8	1356.2	1355.5	1356.2	1356.8	1354.2	1353.5	1354.8
5°	1385.0	1385.0	1386.3	1386.9	1386.3	1385.0	1385.0	1382.4	1380.4	1378.4	1377.8
7.5°	1409.9	1411.2	1412.5	1413.1	1412.5	1411.2	1409.9	1405.9	1402.0	1398.7	1396.1
10°	1424.9	1426.9	1429.5	1430.8	1429.5	1426.9	1424.9	1420.3	1415.1	1409.9	1405.9
12.5°	1431.5	1433.4	1436.7	1436.1	1436.7	1433.4	1431.5	1424.9	1419.0	1411.8	1405.9
15°	1426.9	1429.5	1432.8	1434.1	1432.8	1429.5	1426.9	1420.3	1415.1	1407.2	1401.3
17.5°	1412.5	1416.4	1418.4	1420.3	1418.4	1416.4	1412.5	1407.2	1400.0	1393.5	1387.6
20°	1392.8	1395.5	1398.1	1398.7	1398.1	1395.5	1392.8	1386.9	1375.8	1374.5	1369.9
22.5°	1364.7	1366.6	1372.5	1370.6	1372.5	1366.6	1364.7	1359.4	1355.5	1348.3	1343.7
25°	1324.1	1326.0	1326.7	1327.4	1326.7	1326.0	1324.1	1319.5	1315.6	1310.3	1307.7
27.5°	1254.0	1254.0	1255.3	1256.0	1255.3	1254.0	1254.0	1250.7	1248.1	1245.5	1242.9
30°	1147.9	1147.9	1147.9	1151.2	1147.9	1147.9	1147.9	1147.3	1147.3	1147.9	1147.9
32.5°	1025.5	1024.2	1022.9	1024.2	1022.9	1024.2	1025.5	1026.1	1025.5	1027.4	1030.7
35°	886.6	886.0	888.0	885.3	888.0	886.0	886.6	886.6	889.3	891.9	892.5
37.5°	753.7	752.4	755.0	752.4	755.0	752.4	753.7	753.1	752.4	753.7	751.8
40°	627.3	628.6	628.6	633.9	628.6	628.6	627.3	626.0	621.4	618.8	616.2
42.5°	506.2	510.1	508.8	512.7	508.8	510.1	506.2	503.6	498.3	493.7	489.8
45°	391.6	394.2	394.2	395.5	394.2	394.2	391.6	389.0	384.4	380.4	377.8
47.5°	300.6	300.6	300.6	301.2	300.6	300.6	300.6	296.0	294.7	292.1	288.8
50°	228.5	229.2	229.9	230.5	229.9	229.2	228.5	227.2	226.6	225.3	224.6
52.5°	175.5	176.1	174.8	176.1	174.8	176.1	175.5	176.1	174.2	174.2	173.5
55°	132.9	132.3	132.9	133.6	132.9	132.3	132.9	132.9	132.3	132.3	132.3
57.5°	97.6	96.3	96.3	96.3	96.3	96.3	97.6	96.9	98.9	97.6	98.2
60°	72.7	73.3	73.3	74.0	73.3	73.3	72.7	74.0	74.0	74.7	74.7
62.5°	53.7	55.7	54.3	55.7	54.3	55.7	53.7	54.3	54.3	55.0	55.7
65°	34.7	34.7	34.7	35.4	34.7	34.7	34.7	35.4	36.0	35.4	37.3
67.5°	23.6	24.2	25.6	24.9	25.6	24.2	23.6	24.2	24.2	26.2	25.6
70°	19.0	17.0	17.0	19.0	17.0	17.0	19.0	17.7	17.0	18.3	17.7
72.5°	11.1	9.8	11.1	11.1	11.1	9.8	11.1	9.8	10.5	10.5	11.8
75°	5.9	5.2	4.6	6.5	4.6	5.2	5.9	5.9	5.9	5.9	6.5
77.5°	3.9	3.3	4.6	4.6	4.6	3.3	3.9	3.3	3.9	3.3	3.9
80°	2.0	2.6	2.0	3.3	2.0	2.6	2.0	3.3	2.0	2.6	2.6
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: P245019

CATALOG NUMBER: LD8B30D010 ER8B309730 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1354.8	1352.9	1353.5	1349.6	1349.6	1348.3	1349.0	1345.7	1344.4	1343.1	1345.0
5°	1374.5	1371.2	1368.6	1362.7	1359.4	1355.5	1353.5	1348.3	1343.7	1339.8	1339.1
7.5°	1390.2	1383.0	1378.4	1370.6	1364.7	1360.1	1353.5	1346.3	1340.4	1335.2	1331.3
10°	1396.8	1389.6	1382.4	1372.5	1366.0	1357.5	1350.9	1341.7	1333.9	1326.7	1322.1
12.5°	1397.4	1388.2	1381.7	1370.6	1362.0	1352.9	1345.7	1335.2	1326.0	1318.8	1311.6
15°	1391.5	1383.0	1375.1	1363.4	1354.8	1346.3	1337.8	1326.7	1318.2	1309.7	1304.4
17.5°	1378.4	1370.6	1361.4	1350.3	1342.4	1334.5	1325.4	1316.2	1306.4	1297.2	1290.7
20°	1361.4	1352.9	1345.0	1333.9	1327.4	1318.8	1310.3	1300.5	1292.6	1283.5	1276.3
22.5°	1335.9	1328.0	1320.8	1314.3	1303.8	1297.2	1291.3	1280.2	1272.3	1263.8	1256.0
25°	1299.2	1291.3	1285.4	1277.6	1273.0	1265.8	1259.9	1250.1	1242.9	1235.0	1228.5
27.5°	1238.9	1234.4	1231.1	1226.5	1222.6	1219.3	1216.0	1208.2	1202.9	1195.7	1189.2
30°	1148.6	1147.9	1146.0	1144.0	1146.6	1146.6	1146.6	1145.3	1140.7	1135.5	1130.9
32.5°	1032.7	1034.0	1036.6	1038.6	1043.8	1049.7	1054.9	1057.5	1057.5	1054.3	1052.3
35°	894.5	896.5	900.4	905.6	912.2	919.4	931.2	933.8	935.7	935.7	933.1
37.5°	751.1	750.4	754.4	759.0	762.9	768.1	776.6	778.6	781.9	780.6	777.9
40°	611.6	608.3	607.0	608.3	612.9	611.0	612.9	611.6	611.6	607.0	607.0
42.5°	482.6	478.7	476.1	474.1	474.1	469.5	466.2	463.0	461.0	457.7	457.1
45°	372.0	367.3	364.1	362.8	360.8	354.9	351.0	347.1	342.5	341.2	341.8
47.5°	288.8	284.2	282.9	279.6	276.3	273.1	270.5	265.9	265.2	262.6	265.2
50°	222.6	221.3	219.4	218.1	216.1	213.5	210.9	208.2	206.9	206.9	207.6
52.5°	172.9	173.5	171.6	169.6	168.3	168.3	165.0	164.4	164.4	161.7	164.4
55°	132.3	131.6	132.3	131.0	131.0	129.0	129.0	127.0	127.0	125.1	126.4
57.5°	96.9	98.2	96.9	97.6	98.9	96.9	96.3	94.3	95.6	94.3	95.0
60°	75.3	75.3	75.3	74.7	74.7	74.0	74.0	73.3	73.3	72.0	73.3
62.5°	55.7	56.3	56.3	56.3	57.0	56.3	55.7	56.3	55.7	55.7	56.3
65°	36.7	37.3	37.3	36.7	38.0	36.7	37.3	38.0	38.6	38.0	38.6
67.5°	24.9	24.9	25.6	26.2	25.6	26.2	26.8	26.2	26.8	28.2	26.8
70°	18.3	19.0	19.0	18.3	17.7	18.3	17.7	19.6	19.6	19.6	20.9
72.5°	11.8	11.8	11.1	11.1	11.1	11.1	11.1	13.1	11.8	11.1	12.5
75°	6.5	7.2	7.2	5.2	5.9	7.2	5.2	5.9	7.9	6.5	7.9
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	5.2	4.6	4.6	4.6	5.2
80°	3.3	2.6	2.6	2.0	2.6	2.6	2.6	3.9	3.3	3.3	3.9
82.5°	1.3	1.3	0.6	0.0	1.3	1.3	1.3	1.3	1.3	1.3	2.6
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: P245019

CATALOG NUMBER: LD8B30D010 ER8B309730 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1339.8	1339.8	1339.1	1337.8	1335.2	1335.2	1334.5	1332.6	1331.3	1330.6	1330.6
5°	1333.2	1330.6	1328.0	1320.8	1320.8	1319.5	1315.6	1312.9	1311.6	1308.3	1307.1
7.5°	1327.4	1319.5	1314.9	1310.3	1304.4	1301.8	1297.2	1295.2	1290.7	1287.4	1285.4
10°	1312.9	1307.7	1301.8	1294.6	1290.0	1284.8	1279.5	1275.6	1269.7	1266.4	1263.8
12.5°	1303.1	1295.2	1290.0	1282.1	1274.3	1269.7	1262.5	1257.9	1252.0	1245.5	1241.6
15°	1294.0	1285.4	1278.2	1269.7	1261.2	1256.0	1247.5	1242.2	1233.7	1227.2	1222.6
17.5°	1280.2	1273.0	1265.1	1254.7	1246.8	1240.3	1231.1	1224.5	1216.7	1208.2	1203.6
20°	1265.8	1257.3	1249.4	1238.9	1231.1	1223.2	1214.1	1206.9	1197.7	1189.8	1184.6
22.5°	1246.8	1237.0	1230.4	1219.9	1210.8	1202.3	1193.8	1185.3	1176.7	1170.2	1164.3
25°	1219.3	1208.8	1201.6	1193.1	1184.6	1178.1	1167.6	1162.3	1153.8	1147.9	1142.0
27.5°	1180.0	1172.2	1165.6	1157.1	1149.9	1144.7	1136.8	1131.6	1124.3	1119.1	1114.5
30°	1122.4	1115.8	1109.9	1101.4	1096.2	1091.6	1084.4	1079.8	1074.6	1068.7	1067.4
32.5°	1045.1	1039.9	1034.0	1028.1	1024.2	1021.5	1015.6	1013.0	1007.8	1004.5	1001.2
35°	928.5	924.0	920.7	918.1	916.8	917.4	916.1	918.7	920.0	919.4	920.0
37.5°	776.0	773.3	774.7	776.6	783.2	791.7	799.5	811.3	819.2	827.1	834.3
40°	605.7	607.7	612.9	624.7	641.7	660.7	678.4	700.7	722.9	738.7	753.1
42.5°	457.1	463.0	476.1	493.1	518.6	546.8	574.3	607.0	633.9	660.1	678.4
45°	343.8	351.6	368.7	392.3	420.4	453.1	487.9	524.5	556.6	583.5	603.8
47.5°	267.8	275.0	292.1	316.9	351.6	385.7	421.7	459.7	493.1	519.3	537.0
50°	211.5	220.7	235.7	261.9	296.6	332.7	370.0	407.3	438.7	461.0	476.7
52.5°	166.3	174.8	189.2	216.8	252.1	288.1	322.8	359.5	387.0	408.6	419.1
55°	129.0	136.9	151.9	174.8	208.2	243.6	278.3	309.7	335.3	351.0	360.8
57.5°	98.2	104.1	114.6	137.5	167.7	200.4	229.9	261.3	280.9	292.1	298.6
60°	74.7	79.2	90.4	108.1	135.5	163.7	188.6	212.2	227.9	237.1	243.6
62.5°	56.3	61.6	69.4	84.5	105.4	128.4	149.3	167.0	180.1	186.0	190.6
65°	38.6	42.6	48.5	60.2	77.9	94.3	110.7	123.8	132.3	138.8	141.5
67.5°	28.8	31.4	34.7	43.9	56.3	69.4	80.5	89.7	98.9	101.5	106.1
70°	21.6	23.6	26.8	33.4	40.6	49.8	58.9	64.2	70.7	75.3	76.6
72.5°	13.7	14.4	17.7	21.6	27.5	33.4	39.3	43.9	47.8	50.4	51.7
75°	7.9	11.8	11.8	15.7	19.6	22.3	26.2	29.5	31.4	33.4	33.4
77.5°	5.2	7.2	7.9	9.8	11.8	15.1	18.3	20.3	22.3	22.9	22.9
80°	4.6	5.2	5.2	7.2	8.5	11.1	13.1	13.7	15.1	15.7	17.0
82.5°	2.0	2.6	3.3	5.2	5.9	5.9	7.9	8.5	9.8	10.5	10.5
85°	0.6	1.3	1.3	2.0	3.3	3.9	4.6	5.2	5.9	5.9	6.5
87.5°	0.6	0.6	0.0	0.6	1.3	1.3	2.6	2.6	2.6	3.9	3.9
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: P245019

CATALOG NUMBER: LD8B30D010 ER8B309730 8LBSW0WMH

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1	1341.1
2.5°	1329.3	1330.0	1327.4	1326.7	1325.4	1326.0	1327.4
5°	1305.1	1305.7	1303.1	1300.5	1300.5	1299.8	1300.5
7.5°	1282.1	1282.8	1278.9	1277.6	1275.0	1275.6	1275.6
10°	1259.2	1259.2	1253.4	1252.7	1250.7	1250.1	1250.1
12.5°	1237.0	1235.0	1230.4	1227.8	1229.1	1225.2	1225.2
15°	1217.3	1214.1	1208.2	1206.2	1202.9	1201.6	1201.6
17.5°	1197.0	1194.4	1189.2	1185.3	1181.3	1180.7	1181.3
20°	1177.4	1174.8	1168.2	1165.6	1162.3	1162.3	1161.0
22.5°	1157.7	1155.1	1149.2	1147.3	1142.7	1142.7	1143.3
25°	1137.4	1135.5	1128.9	1127.6	1127.0	1124.3	1125.7
27.5°	1109.9	1108.6	1103.4	1101.4	1098.8	1098.2	1099.5
30°	1059.5	1057.5	1053.6	1051.7	1047.1	1047.7	1049.0
32.5°	996.7	994.0	988.8	986.8	982.9	981.6	982.2
35°	918.1	916.1	911.5	911.5	907.6	906.3	907.6
37.5°	838.2	840.1	838.2	840.1	838.2	837.5	838.2
40°	762.9	770.1	771.4	778.6	776.0	779.9	779.3
42.5°	690.8	702.6	707.2	713.1	711.8	714.4	716.4
45°	618.2	628.0	632.6	636.5	637.2	638.5	639.1
47.5°	549.4	557.3	557.9	562.5	561.8	561.8	563.8
50°	485.2	490.5	491.8	495.1	492.4	491.1	491.8
52.5°	425.6	430.9	429.6	430.9	427.6	426.3	426.9
55°	364.7	367.3	367.3	367.3	363.4	363.4	363.4
57.5°	302.5	303.2	301.9	302.5	301.9	297.9	297.3
60°	245.6	245.6	244.9	245.6	243.6	241.6	241.6
62.5°	191.9	193.2	195.8	193.2	191.9	193.2	191.2
65°	143.4	146.0	145.4	146.7	146.0	146.0	144.7
67.5°	108.1	108.7	109.4	110.0	110.0	110.0	110.0
70°	79.2	81.2	80.5	80.5	80.5	80.5	84.5
72.5°	53.0	55.7	55.0	56.3	56.3	57.6	56.3
75°	36.0	38.6	37.3	39.3	38.6	37.3	40.6
77.5°	24.2	25.6	26.2	26.8	26.2	25.6	26.2
80°	17.0	18.3	17.7	18.3	18.3	18.3	19.0
82.5°	10.5	12.5	11.8	12.5	11.8	12.5	12.5
85°	7.2	7.9	6.5	7.9	7.2	7.2	8.5
87.5°	4.6	3.9	3.9	4.6	3.9	4.6	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)