

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: P245889

Luminaire Tested: **LD8B30D010 ER8B30827 8LBSW0B**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P245889  
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 ER8B30827 8LBSW0B  
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF  
RECESSED DOWNLIGHT  
80 CRI 2700 CCT WITH SPECULAR BLACK TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2217.0 lumens  
Efficiency: N/A  
Efficacy: 81.8 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

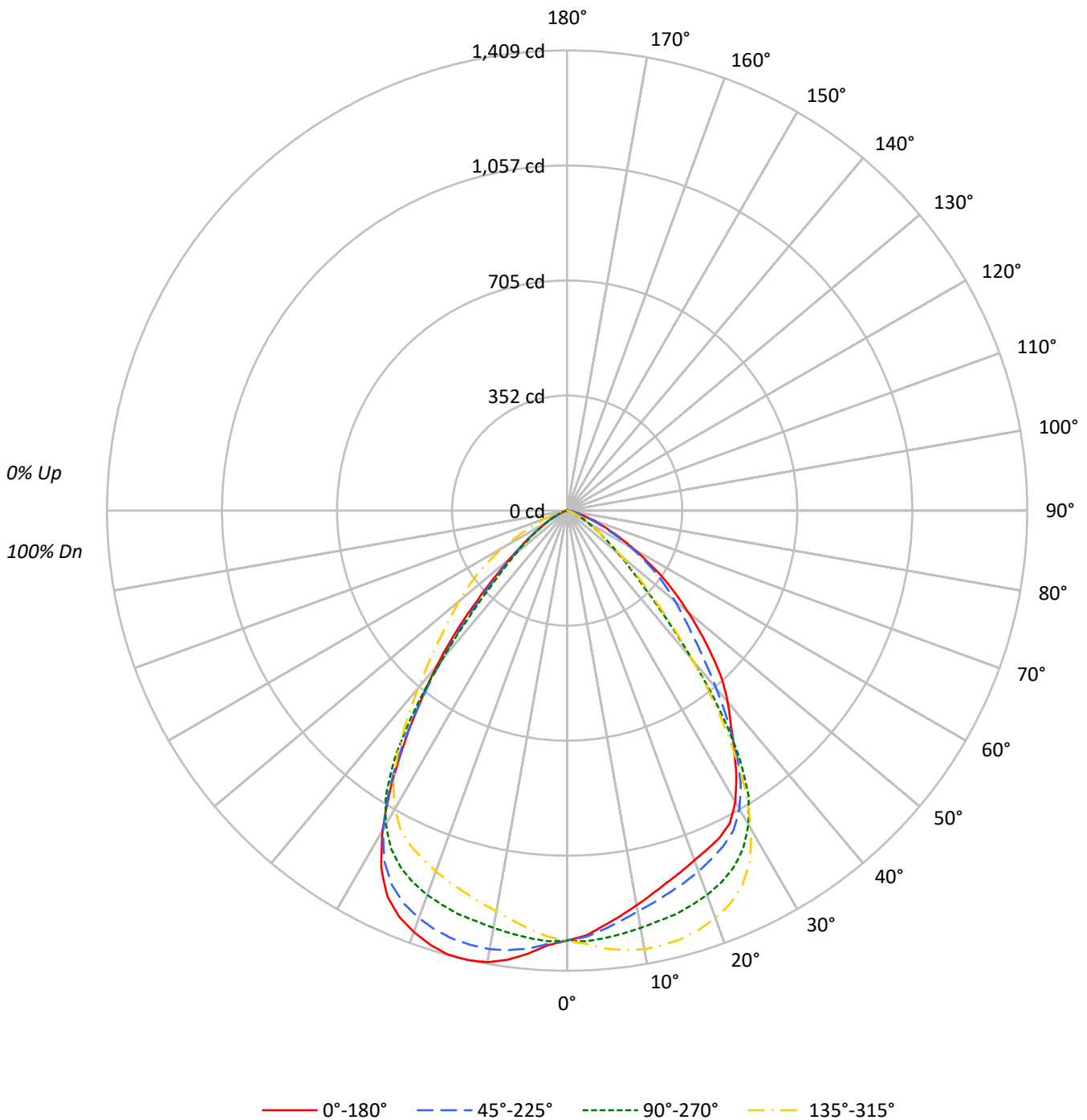
Input Watts (W): 27.1  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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	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°	40587	40587	40587	40587
5°	39507	40680	42135	40680
10°	38414	40627	43968	40627
15°	37648	40869	44930	40869
20°	37390	41101	45046	41101
25°	37586	41019	44323	41019
30°	36657	39520	40228	39520
35°	33530	34475	32709	34475
40°	30786	23979	25042	23979
45°	27352	14631	16929	14631
50°	23152	9772	10851	9772
55°	19177	6666	7048	6666
60°	14623	4440	4477	4440
65°	10361	2765	2532	2765
70°	7474	1857	1677	1857
75°	4742	917	763	917
80°	3303	693	568	693
85°	2972	0	212	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	125.3	5.7
10°-20°	362.8	16.4
20°-30°	549.3	24.8
30°-40°	550.5	24.8
40°-50°	345.7	15.6
50°-60°	184.2	8.3
60°-70°	75.8	3.4
70°-80°	20.0	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°	1037.4	46.8
0°-40°	1587.9	71.6
0°-60°	2117.8	95.5
0°-90°	2217.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2217.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1316	1316	1316	1316	1316	
5°	1276	1314	1361	1314	1276	120
15°	1179	1280	1407	1280	1179	334
25°	1105	1206	1303	1206	1105	507
35°	891	916	869	916	891	558
45°	627	336	388	336	627	482
55°	357	124	131	124	357	318
65°	142	38	35	38	142	147
75°	40	8	6	8	40	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°	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1302.7	1301.4	1300.7	1302.0	1302.7	1305.2	1304.6	1305.9	1305.9	1306.5	1307.8
5°	1276.3	1275.7	1276.3	1276.3	1278.9	1281.5	1280.8	1282.8	1284.0	1287.3	1288.5
7.5°	1251.9	1251.9	1251.2	1253.8	1255.1	1259.0	1258.3	1261.5	1263.5	1266.7	1271.2
10°	1226.8	1226.8	1227.5	1229.4	1230.1	1235.8	1235.8	1240.3	1242.9	1246.1	1251.9
12.5°	1202.4	1202.4	1206.3	1205.0	1207.5	1212.0	1214.0	1218.5	1222.3	1228.8	1234.6
15°	1179.3	1179.3	1180.6	1183.8	1185.7	1191.5	1194.7	1199.9	1204.3	1210.8	1219.1
17.5°	1159.4	1158.7	1159.4	1163.2	1167.1	1172.2	1174.8	1181.2	1185.7	1194.1	1201.8
20°	1139.4	1140.7	1140.7	1143.9	1146.5	1152.9	1155.5	1162.6	1167.7	1175.4	1184.4
22.5°	1122.1	1121.4	1121.4	1125.9	1127.9	1133.6	1136.2	1142.6	1148.4	1154.9	1163.2
25°	1104.7	1103.4	1106.0	1106.7	1107.9	1114.4	1116.3	1120.8	1126.6	1132.4	1140.7
27.5°	1079.0	1077.7	1078.4	1080.9	1082.9	1088.0	1089.3	1093.8	1098.3	1103.4	1110.5
30°	1029.5	1028.3	1027.6	1032.1	1034.0	1037.9	1039.8	1047.5	1048.8	1054.6	1059.7
32.5°	964.0	963.3	964.6	968.5	970.4	975.6	978.1	982.6	985.8	989.1	994.2
35°	890.7	889.4	890.7	894.6	894.6	899.1	901.0	902.9	902.3	902.9	901.7
37.5°	822.6	822.0	822.6	824.5	822.6	824.5	822.6	818.8	811.7	804.0	796.2
40°	764.8	765.4	761.6	764.1	757.0	755.8	748.7	739.1	724.9	709.5	687.7
42.5°	703.1	701.1	698.6	699.8	694.1	689.6	678.0	665.8	647.8	622.1	595.7
45°	627.2	626.6	625.3	624.7	620.8	616.3	606.7	592.5	572.6	546.3	514.8
47.5°	553.3	551.4	551.4	552.0	547.5	546.9	539.2	527.0	509.6	483.9	451.1
50°	482.6	482.0	483.3	485.9	482.6	481.4	476.2	467.9	452.4	430.6	399.7
52.5°	419.0	418.4	419.7	422.9	421.6	422.9	417.7	411.3	401.0	379.8	352.8
55°	356.7	356.7	356.7	360.5	360.5	360.5	358.0	354.1	344.5	329.0	304.0
57.5°	291.8	292.4	296.3	296.9	296.3	297.6	296.9	293.0	286.6	275.7	256.4
60°	237.1	237.1	239.1	241.0	240.3	241.0	241.0	239.1	232.6	223.7	208.2
62.5°	187.7	189.6	188.3	189.6	192.1	189.6	188.3	187.0	182.5	176.7	163.9
65°	142.0	143.3	143.3	144.0	142.7	143.3	140.8	138.8	136.3	129.8	121.5
67.5°	108.0	108.0	108.0	108.0	107.3	106.7	106.0	104.1	99.6	97.1	88.0
70°	82.9	79.0	79.0	79.0	79.0	79.7	77.8	75.2	73.9	69.4	63.0
72.5°	55.3	56.6	55.3	55.3	54.0	54.6	52.1	50.8	49.5	46.9	43.1
75°	39.8	36.6	37.9	38.6	36.6	37.9	35.3	32.8	32.8	30.8	28.9
77.5°	25.7	25.1	25.7	26.3	25.7	25.1	23.8	22.5	22.5	21.8	19.9
80°	18.6	18.0	18.0	18.0	17.4	18.0	16.7	16.7	15.4	14.8	13.5
82.5°	12.2	12.2	11.6	12.2	11.6	12.2	10.3	10.3	10.3	9.6	8.4
85°	8.4	7.1	7.1	7.7	6.4	7.7	7.1	6.4	5.8	5.8	5.1
87.5°	3.9	4.5	3.9	4.5	3.9	3.9	4.5	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°	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1309.7	1310.4	1310.4	1313.0	1314.2	1314.9	1314.9	1320.0	1318.1	1319.4	1320.7
5°	1291.1	1294.9	1296.2	1296.2	1303.3	1305.9	1308.4	1314.2	1314.9	1318.7	1323.2
7.5°	1273.1	1277.6	1280.2	1286.0	1290.5	1294.9	1302.7	1306.5	1310.4	1315.5	1321.3
10°	1255.7	1260.9	1266.0	1270.5	1277.6	1283.4	1288.5	1297.5	1302.0	1309.1	1316.8
12.5°	1239.1	1246.1	1250.6	1258.3	1266.0	1271.2	1278.9	1287.3	1294.3	1301.4	1310.4
15°	1224.3	1232.6	1237.8	1246.1	1254.5	1261.5	1269.9	1280.2	1285.3	1293.7	1302.0
17.5°	1208.2	1217.2	1223.6	1231.3	1241.6	1249.3	1256.4	1266.7	1273.1	1282.1	1291.7
20°	1191.5	1200.5	1208.2	1215.9	1226.2	1233.9	1242.3	1252.5	1259.6	1268.6	1276.3
22.5°	1171.6	1179.9	1188.3	1197.3	1207.5	1214.0	1223.6	1232.6	1240.3	1248.7	1256.4
25°	1145.9	1156.2	1162.6	1170.9	1179.3	1186.3	1196.6	1205.6	1212.0	1219.8	1226.8
27.5°	1115.7	1123.4	1128.5	1135.6	1143.9	1150.4	1158.1	1167.1	1173.5	1180.6	1185.7
30°	1064.2	1071.3	1075.8	1080.9	1089.3	1095.1	1101.5	1109.9	1114.4	1119.5	1124.0
32.5°	996.8	1002.5	1005.1	1009.0	1014.8	1020.5	1025.7	1032.8	1034.7	1037.9	1037.9
35°	899.1	900.4	899.7	901.0	903.6	906.8	911.3	915.8	918.3	918.3	916.4
37.5°	784.7	777.0	768.6	762.2	760.3	759.0	761.6	763.5	766.1	767.3	764.1
40°	665.8	648.5	629.8	613.1	601.5	596.4	594.5	595.7	595.7	600.2	600.2
42.5°	563.6	536.6	509.0	483.9	467.2	454.4	448.6	448.6	449.2	452.4	454.4
45°	478.8	444.7	412.6	385.0	361.8	345.1	337.4	335.5	334.8	336.1	340.6
47.5°	413.9	378.5	345.1	311.1	286.6	269.9	262.9	260.3	257.7	260.3	260.9
50°	363.1	326.5	291.1	257.1	231.4	216.6	207.6	203.7	203.1	203.1	204.4
52.5°	316.8	282.8	247.4	212.7	185.7	171.6	163.2	161.3	158.7	161.3	161.3
55°	273.1	239.1	204.4	171.6	149.1	134.3	126.6	124.0	122.7	124.7	124.7
57.5°	225.6	196.6	164.5	135.0	112.5	102.2	96.4	93.2	92.5	93.8	92.5
60°	185.1	160.7	133.0	106.0	88.7	77.8	73.3	72.0	70.7	72.0	72.0
62.5°	146.5	126.0	103.5	82.9	68.1	60.4	55.3	55.3	54.6	54.6	55.3
65°	108.6	92.5	76.5	59.1	47.6	41.8	37.9	37.9	37.3	37.9	37.3
67.5°	79.0	68.1	55.3	43.1	34.1	30.8	28.3	26.3	27.6	26.3	25.7
70°	57.9	48.8	39.8	32.8	26.3	23.1	21.2	20.6	19.3	19.3	19.3
72.5°	38.6	32.8	27.0	21.2	17.4	14.1	13.5	12.2	10.9	11.6	12.9
75°	25.7	21.8	19.3	15.4	11.6	11.6	7.7	7.7	6.4	7.7	5.8
77.5°	18.0	14.8	11.6	9.6	7.7	7.1	5.1	5.1	4.5	4.5	4.5
80°	12.9	10.9	8.4	7.1	5.1	5.1	4.5	3.9	3.2	3.2	3.9
82.5°	7.7	5.8	5.8	5.1	3.2	2.6	1.9	2.6	1.3	1.3	1.3
85°	4.5	3.9	3.2	1.9	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°	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1323.9	1323.2	1324.5	1324.5	1328.4	1327.7	1329.7	1329.7	1328.4	1329.0	1331.6
5°	1328.4	1330.3	1334.2	1337.4	1343.1	1345.7	1348.9	1352.2	1352.8	1354.7	1356.7
7.5°	1328.4	1334.8	1339.3	1345.1	1352.8	1357.3	1364.4	1370.2	1372.7	1375.9	1379.8
10°	1325.8	1332.2	1340.6	1347.0	1356.7	1363.7	1370.8	1379.8	1383.6	1388.8	1393.9
12.5°	1320.7	1327.7	1336.7	1345.1	1356.0	1362.4	1371.4	1379.8	1385.6	1392.6	1398.4
15°	1313.0	1321.3	1329.7	1338.0	1349.6	1357.3	1365.7	1375.3	1381.1	1388.8	1393.9
17.5°	1300.7	1309.7	1317.5	1325.2	1336.1	1345.1	1352.8	1361.8	1367.6	1374.0	1381.1
20°	1286.0	1294.3	1302.7	1309.1	1320.0	1327.7	1336.1	1344.4	1348.9	1350.2	1361.2
22.5°	1267.3	1273.1	1279.5	1289.8	1296.2	1303.3	1311.0	1318.7	1323.2	1330.3	1334.2
25°	1236.5	1242.3	1249.3	1253.8	1261.5	1267.3	1275.0	1283.4	1286.0	1291.1	1294.9
27.5°	1193.4	1196.6	1199.9	1203.7	1208.2	1211.4	1215.9	1219.8	1222.3	1224.9	1227.5
30°	1125.3	1125.3	1125.3	1122.7	1124.6	1126.6	1127.2	1126.6	1126.6	1125.9	1125.9
32.5°	1035.3	1030.2	1024.4	1019.3	1017.3	1014.8	1013.5	1011.5	1008.3	1006.4	1007.0
35°	913.8	902.3	895.2	888.8	883.7	879.8	877.9	875.9	875.3	872.7	870.1
37.5°	762.2	753.8	748.7	744.8	740.3	736.5	737.1	737.8	739.7	738.4	739.1
40°	601.5	599.6	601.5	597.0	595.7	597.0	600.2	604.8	607.3	609.9	614.4
42.5°	457.6	460.8	465.3	465.3	467.2	469.8	473.6	480.7	484.6	489.1	494.2
45°	344.5	348.3	354.1	356.0	357.3	360.5	365.0	370.8	373.4	377.2	381.7
47.5°	265.4	268.0	271.2	274.4	277.6	278.9	283.4	283.4	286.6	289.2	290.5
50°	206.9	209.5	212.1	214.0	215.3	217.2	218.5	220.4	221.1	222.4	223.0
52.5°	161.9	165.2	165.2	166.4	168.4	170.3	169.7	170.3	170.9	170.9	172.9
55°	126.6	126.6	128.5	128.5	129.8	129.2	129.8	129.8	129.8	129.8	130.5
57.5°	94.5	95.1	97.1	95.8	95.1	96.4	95.1	96.4	95.8	97.1	95.1
60°	72.6	72.6	73.3	73.3	73.9	73.9	73.9	73.3	73.3	72.6	72.6
62.5°	54.6	55.3	55.9	55.3	55.3	55.3	54.6	54.6	54.0	53.3	53.3
65°	36.6	36.0	37.3	36.0	36.6	36.6	36.0	36.6	34.7	35.3	34.7
67.5°	26.3	25.7	25.1	25.7	25.1	24.4	24.4	25.1	25.7	23.8	23.8
70°	17.4	18.0	17.4	18.0	18.6	18.6	18.0	17.4	18.0	16.7	17.4
72.5°	10.9	10.9	10.9	10.9	10.9	11.6	11.6	11.6	10.3	10.3	9.6
75°	5.1	7.1	5.8	5.1	7.1	7.1	6.4	6.4	5.8	5.8	5.8
77.5°	5.1	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.2	3.9	3.2
80°	2.6	2.6	2.6	1.9	2.6	2.6	3.2	2.6	2.6	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: P245889

CATALOG NUMBER: LD8B30D010 ER8B30827 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1330.9	1330.3	1330.9	1331.6	1330.9	1330.3	1330.9	1331.6	1329.0	1328.4	1329.7
5°	1359.2	1359.2	1360.5	1361.2	1360.5	1359.2	1359.2	1356.7	1354.7	1352.8	1352.2
7.5°	1383.6	1384.9	1386.2	1386.8	1386.2	1384.9	1383.6	1379.8	1375.9	1372.7	1370.2
10°	1398.4	1400.4	1402.9	1404.2	1402.9	1400.4	1398.4	1393.9	1388.8	1383.6	1379.8
12.5°	1404.9	1406.8	1410.0	1409.4	1410.0	1406.8	1404.9	1398.4	1392.6	1385.6	1379.8
15°	1400.4	1402.9	1406.1	1407.4	1406.1	1402.9	1400.4	1393.9	1388.8	1381.1	1375.3
17.5°	1386.2	1390.1	1392.0	1393.9	1392.0	1390.1	1386.2	1381.1	1374.0	1367.6	1361.8
20°	1366.9	1369.5	1372.1	1372.7	1372.1	1369.5	1366.9	1361.2	1350.2	1348.9	1344.4
22.5°	1339.3	1341.2	1347.0	1345.1	1347.0	1341.2	1339.3	1334.2	1330.3	1323.2	1318.7
25°	1299.4	1301.4	1302.0	1302.7	1302.0	1301.4	1299.4	1294.9	1291.1	1286.0	1283.4
27.5°	1230.7	1230.7	1232.0	1232.6	1232.0	1230.7	1230.7	1227.5	1224.9	1222.3	1219.8
30°	1126.6	1126.6	1126.6	1129.8	1126.6	1126.6	1126.6	1125.9	1125.9	1126.6	1126.6
32.5°	1006.4	1005.1	1003.8	1005.1	1003.8	1005.1	1006.4	1007.0	1006.4	1008.3	1011.5
35°	870.1	869.5	871.4	868.9	871.4	869.5	870.1	870.1	872.7	875.3	875.9
37.5°	739.7	738.4	741.0	738.4	741.0	738.4	739.7	739.1	738.4	739.7	737.8
40°	615.7	616.9	616.9	622.1	616.9	616.9	615.7	614.4	609.9	607.3	604.8
42.5°	496.8	500.6	499.3	503.2	499.3	500.6	496.8	494.2	489.1	484.6	480.7
45°	384.3	386.9	386.9	388.2	386.9	386.9	384.3	381.7	377.2	373.4	370.8
47.5°	295.0	295.0	295.0	295.6	295.0	295.0	295.0	290.5	289.2	286.6	283.4
50°	224.3	224.9	225.6	226.2	225.6	224.9	224.3	223.0	222.4	221.1	220.4
52.5°	172.2	172.9	171.6	172.9	171.6	172.9	172.2	172.9	170.9	170.9	170.3
55°	130.5	129.8	130.5	131.1	130.5	129.8	130.5	130.5	129.8	129.8	129.8
57.5°	95.8	94.5	94.5	94.5	94.5	94.5	95.8	95.1	97.1	95.8	96.4
60°	71.3	72.0	72.0	72.6	72.0	72.0	71.3	72.6	72.6	73.3	73.3
62.5°	52.7	54.6	53.3	54.6	53.3	54.6	52.7	53.3	53.3	54.0	54.6
65°	34.1	34.1	34.1	34.7	34.1	34.1	34.1	34.7	35.3	34.7	36.6
67.5°	23.1	23.8	25.1	24.4	25.1	23.8	23.1	23.8	23.8	25.7	25.1
70°	18.6	16.7	16.7	18.6	16.7	16.7	18.6	17.4	16.7	18.0	17.4
72.5°	10.9	9.6	10.9	10.9	10.9	9.6	10.9	9.6	10.3	10.3	11.6
75°	5.8	5.1	4.5	6.4	4.5	5.1	5.8	5.8	5.8	5.8	6.4
77.5°	3.9	3.2	4.5	4.5	4.5	3.2	3.9	3.2	3.9	3.2	3.9
80°	1.9	2.6	1.9	3.2	1.9	2.6	1.9	3.2	1.9	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: P245889

CATALOG NUMBER: LD8B30D010 ER8B30827 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1329.7	1327.7	1328.4	1324.5	1324.5	1323.2	1323.9	1320.7	1319.4	1318.1	1320.0
5°	1348.9	1345.7	1343.1	1337.4	1334.2	1330.3	1328.4	1323.2	1318.7	1314.9	1314.2
7.5°	1364.4	1357.3	1352.8	1345.1	1339.3	1334.8	1328.4	1321.3	1315.5	1310.4	1306.5
10°	1370.8	1363.7	1356.7	1347.0	1340.6	1332.2	1325.8	1316.8	1309.1	1302.0	1297.5
12.5°	1371.4	1362.4	1356.0	1345.1	1336.7	1327.7	1320.7	1310.4	1301.4	1294.3	1287.3
15°	1365.7	1357.3	1349.6	1338.0	1329.7	1321.3	1313.0	1302.0	1293.7	1285.3	1280.2
17.5°	1352.8	1345.1	1336.1	1325.2	1317.5	1309.7	1300.7	1291.7	1282.1	1273.1	1266.7
20°	1336.1	1327.7	1320.0	1309.1	1302.7	1294.3	1286.0	1276.3	1268.6	1259.6	1252.5
22.5°	1311.0	1303.3	1296.2	1289.8	1279.5	1273.1	1267.3	1256.4	1248.7	1240.3	1232.6
25°	1275.0	1267.3	1261.5	1253.8	1249.3	1242.3	1236.5	1226.8	1219.8	1212.0	1205.6
27.5°	1215.9	1211.4	1208.2	1203.7	1199.9	1196.6	1193.4	1185.7	1180.6	1173.5	1167.1
30°	1127.2	1126.6	1124.6	1122.7	1125.3	1125.3	1125.3	1124.0	1119.5	1114.4	1109.9
32.5°	1013.5	1014.8	1017.3	1019.3	1024.4	1030.2	1035.3	1037.9	1037.9	1034.7	1032.8
35°	877.9	879.8	883.7	888.8	895.2	902.3	913.8	916.4	918.3	918.3	915.8
37.5°	737.1	736.5	740.3	744.8	748.7	753.8	762.2	764.1	767.3	766.1	763.5
40°	600.2	597.0	595.7	597.0	601.5	599.6	601.5	600.2	600.2	595.7	595.7
42.5°	473.6	469.8	467.2	465.3	465.3	460.8	457.6	454.4	452.4	449.2	448.6
45°	365.0	360.5	357.3	356.0	354.1	348.3	344.5	340.6	336.1	334.8	335.5
47.5°	283.4	278.9	277.6	274.4	271.2	268.0	265.4	260.9	260.3	257.7	260.3
50°	218.5	217.2	215.3	214.0	212.1	209.5	206.9	204.4	203.1	203.1	203.7
52.5°	169.7	170.3	168.4	166.4	165.2	165.2	161.9	161.3	161.3	158.7	161.3
55°	129.8	129.2	129.8	128.5	128.5	126.6	126.6	124.7	124.7	122.7	124.0
57.5°	95.1	96.4	95.1	95.8	97.1	95.1	94.5	92.5	93.8	92.5	93.2
60°	73.9	73.9	73.9	73.3	73.3	72.6	72.6	72.0	72.0	70.7	72.0
62.5°	54.6	55.3	55.3	55.3	55.9	55.3	54.6	55.3	54.6	54.6	55.3
65°	36.0	36.6	36.6	36.0	37.3	36.0	36.6	37.3	37.9	37.3	37.9
67.5°	24.4	24.4	25.1	25.7	25.1	25.7	26.3	25.7	26.3	27.6	26.3
70°	18.0	18.6	18.6	18.0	17.4	18.0	17.4	19.3	19.3	19.3	20.6
72.5°	11.6	11.6	10.9	10.9	10.9	10.9	10.9	12.9	11.6	10.9	12.2
75°	6.4	7.1	7.1	5.1	5.8	7.1	5.1	5.8	7.7	6.4	7.7
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	5.1	4.5	4.5	4.5	5.1
80°	3.2	2.6	2.6	1.9	2.6	2.6	2.6	3.9	3.2	3.2	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: P245889

CATALOG NUMBER: LD8B30D010 ER8B30827 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1314.9	1314.9	1314.2	1313.0	1310.4	1310.4	1309.7	1307.8	1306.5	1305.9	1305.9
5°	1308.4	1305.9	1303.3	1296.2	1296.2	1294.9	1291.1	1288.5	1287.3	1284.0	1282.8
7.5°	1302.7	1294.9	1290.5	1286.0	1280.2	1277.6	1273.1	1271.2	1266.7	1263.5	1261.5
10°	1288.5	1283.4	1277.6	1270.5	1266.0	1260.9	1255.7	1251.9	1246.1	1242.9	1240.3
12.5°	1278.9	1271.2	1266.0	1258.3	1250.6	1246.1	1239.1	1234.6	1228.8	1222.3	1218.5
15°	1269.9	1261.5	1254.5	1246.1	1237.8	1232.6	1224.3	1219.1	1210.8	1204.3	1199.9
17.5°	1256.4	1249.3	1241.6	1231.3	1223.6	1217.2	1208.2	1201.8	1194.1	1185.7	1181.2
20°	1242.3	1233.9	1226.2	1215.9	1208.2	1200.5	1191.5	1184.4	1175.4	1167.7	1162.6
22.5°	1223.6	1214.0	1207.5	1197.3	1188.3	1179.9	1171.6	1163.2	1154.9	1148.4	1142.6
25°	1196.6	1186.3	1179.3	1170.9	1162.6	1156.2	1145.9	1140.7	1132.4	1126.6	1120.8
27.5°	1158.1	1150.4	1143.9	1135.6	1128.5	1123.4	1115.7	1110.5	1103.4	1098.3	1093.8
30°	1101.5	1095.1	1089.3	1080.9	1075.8	1071.3	1064.2	1059.7	1054.6	1048.8	1047.5
32.5°	1025.7	1020.5	1014.8	1009.0	1005.1	1002.5	996.8	994.2	989.1	985.8	982.6
35°	911.3	906.8	903.6	901.0	899.7	900.4	899.1	901.7	902.9	902.3	902.9
37.5°	761.6	759.0	760.3	762.2	768.6	777.0	784.7	796.2	804.0	811.7	818.8
40°	594.5	596.4	601.5	613.1	629.8	648.5	665.8	687.7	709.5	724.9	739.1
42.5°	448.6	454.4	467.2	483.9	509.0	536.6	563.6	595.7	622.1	647.8	665.8
45°	337.4	345.1	361.8	385.0	412.6	444.7	478.8	514.8	546.3	572.6	592.5
47.5°	262.9	269.9	286.6	311.1	345.1	378.5	413.9	451.1	483.9	509.6	527.0
50°	207.6	216.6	231.4	257.1	291.1	326.5	363.1	399.7	430.6	452.4	467.9
52.5°	163.2	171.6	185.7	212.7	247.4	282.8	316.8	352.8	379.8	401.0	411.3
55°	126.6	134.3	149.1	171.6	204.4	239.1	273.1	304.0	329.0	344.5	354.1
57.5°	96.4	102.2	112.5	135.0	164.5	196.6	225.6	256.4	275.7	286.6	293.0
60°	73.3	77.8	88.7	106.0	133.0	160.7	185.1	208.2	223.7	232.6	239.1
62.5°	55.3	60.4	68.1	82.9	103.5	126.0	146.5	163.9	176.7	182.5	187.0
65°	37.9	41.8	47.6	59.1	76.5	92.5	108.6	121.5	129.8	136.3	138.8
67.5°	28.3	30.8	34.1	43.1	55.3	68.1	79.0	88.0	97.1	99.6	104.1
70°	21.2	23.1	26.3	32.8	39.8	48.8	57.9	63.0	69.4	73.9	75.2
72.5°	13.5	14.1	17.4	21.2	27.0	32.8	38.6	43.1	46.9	49.5	50.8
75°	7.7	11.6	11.6	15.4	19.3	21.8	25.7	28.9	30.8	32.8	32.8
77.5°	5.1	7.1	7.7	9.6	11.6	14.8	18.0	19.9	21.8	22.5	22.5
80°	4.5	5.1	5.1	7.1	8.4	10.9	12.9	13.5	14.8	15.4	16.7
82.5°	1.9	2.6	3.2	5.1	5.8	5.8	7.7	8.4	9.6	10.3	10.3
85°	0.6	1.3	1.3	1.9	3.2	3.9	4.5	5.1	5.8	5.8	6.4
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: P245889

CATALOG NUMBER: LD8B30D010 ER8B30827 8LBSW0B

**CANDELA DISTRIBUTION (continued):**

	330°	335°	340°	345°	350°	355°	360°
0°	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2	1316.2
2.5°	1304.6	1305.2	1302.7	1302.0	1300.7	1301.4	1302.7
5°	1280.8	1281.5	1278.9	1276.3	1276.3	1275.7	1276.3
7.5°	1258.3	1259.0	1255.1	1253.8	1251.2	1251.9	1251.9
10°	1235.8	1235.8	1230.1	1229.4	1227.5	1226.8	1226.8
12.5°	1214.0	1212.0	1207.5	1205.0	1206.3	1202.4	1202.4
15°	1194.7	1191.5	1185.7	1183.8	1180.6	1179.3	1179.3
17.5°	1174.8	1172.2	1167.1	1163.2	1159.4	1158.7	1159.4
20°	1155.5	1152.9	1146.5	1143.9	1140.7	1140.7	1139.4
22.5°	1136.2	1133.6	1127.9	1125.9	1121.4	1121.4	1122.1
25°	1116.3	1114.4	1107.9	1106.7	1106.0	1103.4	1104.7
27.5°	1089.3	1088.0	1082.9	1080.9	1078.4	1077.7	1079.0
30°	1039.8	1037.9	1034.0	1032.1	1027.6	1028.3	1029.5
32.5°	978.1	975.6	970.4	968.5	964.6	963.3	964.0
35°	901.0	899.1	894.6	894.6	890.7	889.4	890.7
37.5°	822.6	824.5	822.6	824.5	822.6	822.0	822.6
40°	748.7	755.8	757.0	764.1	761.6	765.4	764.8
42.5°	678.0	689.6	694.1	699.8	698.6	701.1	703.1
45°	606.7	616.3	620.8	624.7	625.3	626.6	627.2
47.5°	539.2	546.9	547.5	552.0	551.4	551.4	553.3
50°	476.2	481.4	482.6	485.9	483.3	482.0	482.6
52.5°	417.7	422.9	421.6	422.9	419.7	418.4	419.0
55°	358.0	360.5	360.5	360.5	356.7	356.7	356.7
57.5°	296.9	297.6	296.3	296.9	296.3	292.4	291.8
60°	241.0	241.0	240.3	241.0	239.1	237.1	237.1
62.5°	188.3	189.6	192.1	189.6	188.3	189.6	187.7
65°	140.8	143.3	142.7	144.0	143.3	143.3	142.0
67.5°	106.0	106.7	107.3	108.0	108.0	108.0	108.0
70°	77.8	79.7	79.0	79.0	79.0	79.0	82.9
72.5°	52.1	54.6	54.0	55.3	55.3	56.6	55.3
75°	35.3	37.9	36.6	38.6	37.9	36.6	39.8
77.5°	23.8	25.1	25.7	26.3	25.7	25.1	25.7
80°	16.7	18.0	17.4	18.0	18.0	18.0	18.6
82.5°	10.3	12.2	11.6	12.2	11.6	12.2	12.2
85°	7.1	7.7	6.4	7.7	7.1	7.1	8.4
87.5°	4.5	3.9	3.9	4.5	3.9	4.5	3.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)