

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: P245828

Luminaire Tested: **LD8B20D010 ER8B20835 8LBSW0GPH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245828
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 8LBSW0GPH
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT
80 CRI 3500 CCT WITH GRAPHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2030.0 lumens
Efficiency: N/A
Efficacy: 95.3 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

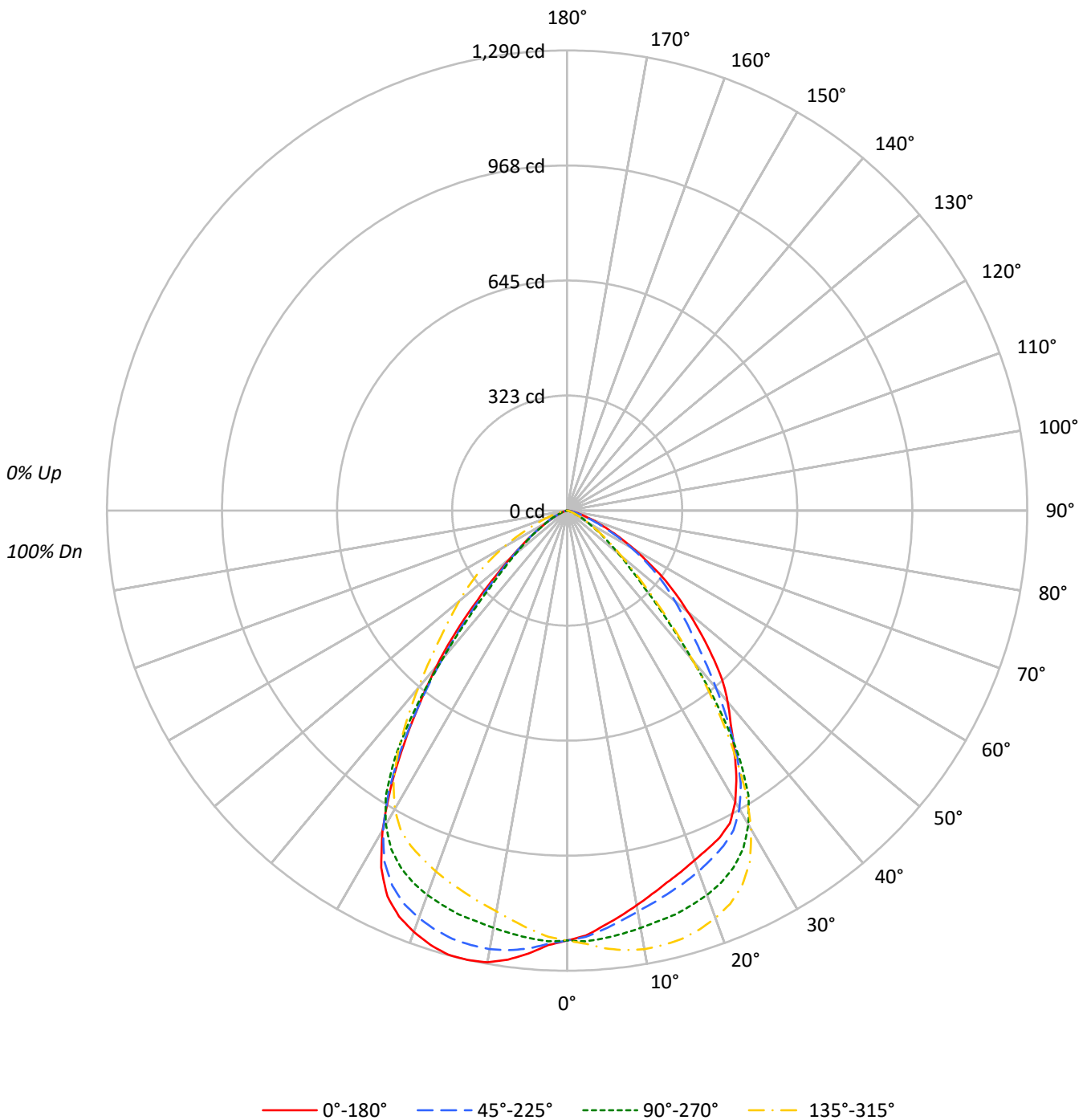
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	37161	37161	37161	37161
5°	36176	37250	38578	37250
10°	35176	37202	40261	37202
15°	34472	37421	41141	37421
20°	34236	37636	41246	37636
25°	34415	37559	40584	37559
30°	33566	36184	36835	36184
35°	30703	31565	29950	31565
40°	28190	21959	22929	21959
45°	25045	13397	15499	13397
50°	21199	8947	9935	8947
55°	17558	6107	6451	6107
60°	13389	4064	4101	4064
65°	9485	2532	2320	2532
70°	6843	1695	1542	1695
75°	4349	846	703	846
80°	3037	622	515	622
85°	2724	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.7	5.7
10°-20°	332.2	16.4
20°-30°	503.0	24.8
30°-40°	504.1	24.8
40°-50°	316.6	15.6
50°-60°	168.7	8.3
60°-70°	69.4	3.4
70°-80°	18.3	0.9
80°-90°	3.1	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°	949.9	46.8
0°-40°	1454.0	71.6
0°-60°	1939.2	95.5
0°-90°	2030.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2030.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1205	1205	1205	1205	1205	
5°	1169	1203	1246	1203	1169	110
15°	1080	1172	1289	1172	1080	305
25°	1012	1104	1193	1104	1012	464
35°	816	838	796	838	816	511
45°	574	307	355	307	574	442
55°	327	114	120	114	327	291
65°	130	35	32	35	130	135
75°	36	7	6	7	36	41
85°	8	0	1	0	8	8
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°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1192.8	1191.6	1191.0	1192.2	1192.8	1195.1	1194.6	1195.7	1195.7	1196.3	1197.5
5°	1168.7	1168.1	1168.7	1168.7	1171.0	1173.4	1172.8	1174.6	1175.7	1178.7	1179.8
7.5°	1146.3	1146.3	1145.7	1148.1	1149.2	1152.8	1152.2	1155.1	1156.9	1159.8	1163.9
10°	1123.4	1123.4	1123.9	1125.7	1126.3	1131.6	1131.6	1135.7	1138.1	1141.0	1146.3
12.5°	1101.0	1101.0	1104.5	1103.3	1105.7	1109.8	1111.6	1115.7	1119.2	1125.1	1130.4
15°	1079.8	1079.8	1081.0	1083.9	1085.7	1091.0	1093.9	1098.6	1102.8	1108.6	1116.3
17.5°	1061.6	1061.0	1061.6	1065.1	1068.6	1073.3	1075.7	1081.6	1085.7	1093.3	1100.4
20°	1043.3	1044.5	1044.5	1047.4	1049.8	1055.7	1058.0	1064.5	1069.2	1076.3	1084.5
22.5°	1027.4	1026.9	1026.9	1031.0	1032.7	1038.0	1040.4	1046.3	1051.6	1057.4	1065.1
25°	1011.5	1010.4	1012.7	1013.3	1014.5	1020.4	1022.1	1026.2	1031.6	1036.9	1044.5
27.5°	988.0	986.8	987.4	989.8	991.5	996.2	997.4	1001.5	1005.7	1010.4	1016.9
30°	942.7	941.5	940.9	945.1	946.8	950.3	952.1	959.2	960.3	965.6	970.3
32.5°	882.7	882.1	883.3	886.8	888.6	893.3	895.6	899.7	902.7	905.6	910.3
35°	815.6	814.4	815.6	819.1	819.1	823.3	825.0	826.8	826.2	826.8	825.6
37.5°	753.2	752.6	753.2	755.0	753.2	755.0	753.2	749.7	743.2	736.2	729.1
40°	700.3	700.8	697.3	699.7	693.2	692.0	685.6	676.7	663.8	649.7	629.7
42.5°	643.8	642.0	639.7	640.8	635.5	631.4	620.8	609.6	593.2	569.6	545.5
45°	574.3	573.8	572.6	572.0	568.4	564.3	555.5	542.6	524.3	500.2	471.3
47.5°	506.7	504.9	504.9	505.5	501.4	500.8	493.7	482.5	466.6	443.1	413.1
50°	441.9	441.3	442.5	444.9	441.9	440.8	436.1	428.4	414.3	394.3	366.0
52.5°	383.7	383.1	384.3	387.2	386.0	387.2	382.5	376.6	367.2	347.8	323.1
55°	326.6	326.6	326.6	330.1	330.1	330.1	327.8	324.2	315.4	301.3	278.3
57.5°	267.2	267.7	271.3	271.9	271.3	272.5	271.9	268.3	262.5	252.5	234.8
60°	217.1	217.1	218.9	220.7	220.1	220.7	220.7	218.9	213.0	204.8	190.7
62.5°	171.8	173.6	172.4	173.6	175.9	173.6	172.4	171.2	167.1	161.8	150.0
65°	130.0	131.2	131.2	131.8	130.6	131.2	128.9	127.1	124.8	118.9	111.2
67.5°	98.9	98.9	98.9	98.9	98.3	97.7	97.1	95.3	91.2	88.9	80.6
70°	75.9	72.4	72.4	72.4	72.4	73.0	71.2	68.9	67.7	63.6	57.7
72.5°	50.6	51.8	50.6	50.6	49.4	50.0	47.7	46.5	45.3	43.0	39.4
75°	36.5	33.5	34.7	35.3	33.5	34.7	32.4	30.0	30.0	28.2	26.5
77.5°	23.5	23.0	23.5	24.1	23.5	23.0	21.8	20.6	20.6	20.0	18.2
80°	17.1	16.5	16.5	16.5	15.9	16.5	15.3	15.3	14.1	13.5	12.4
82.5°	11.2	11.2	10.6	11.2	10.6	11.2	9.4	9.4	9.4	8.8	7.7
85°	7.7	6.5	6.5	7.1	5.9	7.1	6.5	5.9	5.3	5.3	4.7
87.5°	3.5	4.1	3.5	4.1	3.5	3.5	4.1	3.5	3.5	2.3	2.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1199.3	1199.8	1199.8	1202.2	1203.4	1204.0	1204.0	1208.7	1206.9	1208.1	1209.3
5°	1182.2	1185.7	1186.9	1186.9	1193.4	1195.7	1198.1	1203.4	1204.0	1207.5	1211.6
7.5°	1165.7	1169.8	1172.2	1177.5	1181.6	1185.7	1192.8	1196.3	1199.8	1204.6	1209.8
10°	1149.8	1154.5	1159.2	1163.4	1169.8	1175.1	1179.8	1188.1	1192.2	1198.7	1205.7
12.5°	1134.5	1141.0	1145.1	1152.2	1159.2	1163.9	1171.0	1178.7	1185.1	1191.6	1199.8
15°	1121.0	1128.7	1133.4	1141.0	1148.7	1155.1	1162.8	1172.2	1176.9	1184.6	1192.2
17.5°	1106.3	1114.5	1120.4	1127.5	1136.9	1143.9	1150.4	1159.8	1165.7	1173.9	1182.8
20°	1091.0	1099.2	1106.3	1113.3	1122.8	1129.8	1137.5	1146.9	1153.4	1161.6	1168.7
22.5°	1072.8	1080.4	1088.0	1096.3	1105.7	1111.6	1120.4	1128.7	1135.7	1143.4	1150.4
25°	1049.2	1058.6	1064.5	1072.1	1079.8	1086.3	1095.7	1103.9	1109.8	1116.9	1123.4
27.5°	1021.6	1028.6	1033.3	1039.8	1047.4	1053.3	1060.4	1068.6	1074.5	1081.0	1085.7
30°	974.5	981.0	985.1	989.8	997.4	1002.7	1008.6	1016.2	1020.4	1025.1	1029.2
32.5°	912.7	918.0	920.3	923.9	929.2	934.5	939.2	945.6	947.4	950.3	950.3
35°	823.3	824.4	823.8	825.0	827.4	830.3	834.4	838.5	840.9	840.9	839.1
37.5°	718.5	711.4	703.8	697.9	696.1	695.0	697.3	699.1	701.4	702.6	699.7
40°	609.6	593.8	576.7	561.4	550.8	546.1	544.3	545.5	545.5	549.6	549.6
42.5°	516.1	491.3	466.1	443.1	427.8	416.0	410.7	410.7	411.3	414.3	416.0
45°	438.4	407.2	377.8	352.5	331.3	316.0	308.9	307.2	306.6	307.8	311.9
47.5°	379.0	346.6	316.0	284.8	262.5	247.2	240.7	238.3	236.0	238.3	238.9
50°	332.5	298.9	266.6	235.4	211.8	198.3	190.1	186.5	185.9	185.9	187.1
52.5°	290.1	258.9	226.6	194.8	170.1	157.1	149.5	147.7	145.4	147.7	147.7
55°	250.1	218.9	187.1	157.1	136.5	123.0	115.9	113.6	112.4	114.2	114.2
57.5°	206.6	180.1	150.7	123.6	103.0	93.6	88.3	85.3	84.7	85.9	84.7
60°	169.5	147.1	121.8	97.1	81.2	71.2	67.1	65.9	64.7	65.9	65.9
62.5°	134.2	115.3	94.7	75.9	62.4	55.3	50.6	50.6	50.0	50.0	50.6
65°	99.5	84.7	70.0	54.1	43.5	38.2	34.7	34.7	34.1	34.7	34.1
67.5°	72.4	62.4	50.6	39.4	31.2	28.2	25.9	24.1	25.3	24.1	23.5
70°	53.0	44.7	36.5	30.0	24.1	21.2	19.4	18.8	17.7	17.7	17.7
72.5°	35.3	30.0	24.7	19.4	15.9	12.9	12.4	11.2	10.0	10.6	11.8
75°	23.5	20.0	17.7	14.1	10.6	10.6	7.1	7.1	5.9	7.1	5.3
77.5°	16.5	13.5	10.6	8.8	7.1	6.5	4.7	4.7	4.1	4.1	4.1
80°	11.8	10.0	7.7	6.5	4.7	4.7	4.1	3.5	2.9	2.9	3.5
82.5°	7.1	5.3	5.3	4.7	2.9	2.3	1.8	2.3	1.2	1.2	1.2
85°	4.1	3.5	2.9	1.8	1.2	1.2	0.6	0.0	0.6	0.6	0.0
87.5°	2.3	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°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1212.2	1211.6	1212.8	1212.8	1216.3	1215.7	1217.5	1217.5	1216.3	1216.9	1219.3
5°	1216.3	1218.1	1221.6	1224.6	1229.9	1232.2	1235.2	1238.1	1238.7	1240.5	1242.2
7.5°	1216.3	1222.2	1226.3	1231.6	1238.7	1242.8	1249.3	1254.6	1256.9	1259.9	1263.4
10°	1214.0	1219.8	1227.5	1233.4	1242.2	1248.7	1255.2	1263.4	1266.9	1271.6	1276.4
12.5°	1209.3	1215.7	1224.0	1231.6	1241.6	1247.5	1255.7	1263.4	1268.7	1275.2	1280.5
15°	1202.2	1209.8	1217.5	1225.2	1235.7	1242.8	1250.5	1259.3	1264.6	1271.6	1276.4
17.5°	1191.0	1199.3	1206.3	1213.4	1223.4	1231.6	1238.7	1246.9	1252.2	1258.1	1264.6
20°	1177.5	1185.1	1192.8	1198.7	1208.7	1215.7	1223.4	1231.0	1235.2	1236.3	1246.3
22.5°	1160.4	1165.7	1171.6	1181.0	1186.9	1193.4	1200.4	1207.5	1211.6	1218.1	1221.6
25°	1132.2	1137.5	1143.9	1148.1	1155.1	1160.4	1167.5	1175.1	1177.5	1182.2	1185.7
27.5°	1092.8	1095.7	1098.6	1102.2	1106.3	1109.2	1113.3	1116.9	1119.2	1121.6	1123.9
30°	1030.4	1030.4	1030.4	1028.0	1029.8	1031.6	1032.1	1031.6	1031.6	1031.0	1031.0
32.5°	948.0	943.3	938.0	933.3	931.5	929.2	928.0	926.2	923.3	921.5	922.1
35°	836.8	826.2	819.7	813.8	809.1	805.6	803.8	802.1	801.5	799.1	796.8
37.5°	697.9	690.3	685.6	682.0	677.9	674.4	674.9	675.6	677.3	676.1	676.7
40°	550.8	549.0	550.8	546.7	545.5	546.7	549.6	553.7	556.1	558.4	562.6
42.5°	419.0	421.9	426.0	426.0	427.8	430.2	433.7	440.2	443.7	447.8	452.5
45°	315.4	318.9	324.2	326.0	327.2	330.1	334.3	339.5	341.9	345.4	349.5
47.5°	243.0	245.4	248.3	251.3	254.2	255.4	259.5	259.5	262.5	264.8	266.0
50°	189.5	191.8	194.2	195.9	197.1	198.9	200.1	201.8	202.4	203.6	204.2
52.5°	148.3	151.2	151.2	152.4	154.2	155.9	155.4	155.9	156.5	156.5	158.3
55°	115.9	115.9	117.7	117.7	118.9	118.3	118.9	118.9	118.9	118.9	119.5
57.5°	86.5	87.1	88.9	87.7	87.1	88.3	87.1	88.3	87.7	88.9	87.1
60°	66.5	66.5	67.1	67.1	67.7	67.7	67.7	67.1	67.1	66.5	66.5
62.5°	50.0	50.6	51.2	50.6	50.6	50.6	50.0	50.0	49.4	48.8	48.8
65°	33.5	33.0	34.1	33.0	33.5	33.5	33.0	33.5	31.8	32.4	31.8
67.5°	24.1	23.5	23.0	23.5	23.0	22.4	22.4	23.0	23.5	21.8	21.8
70°	15.9	16.5	15.9	16.5	17.1	17.1	16.5	15.9	16.5	15.3	15.9
72.5°	10.0	10.0	10.0	10.0	10.0	10.6	10.6	10.6	9.4	9.4	8.8
75°	4.7	6.5	5.3	4.7	6.5	6.5	5.9	5.9	5.3	5.3	5.3
77.5°	4.7	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.9	3.5	2.9
80°	2.3	2.3	2.3	1.8	2.3	2.3	2.9	2.3	2.3	1.8	2.9
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: P245828

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1218.7	1218.1	1218.7	1219.3	1218.7	1218.1	1218.7	1219.3	1216.9	1216.3	1217.5
5°	1244.6	1244.6	1245.7	1246.3	1245.7	1244.6	1244.6	1242.2	1240.5	1238.7	1238.1
7.5°	1266.9	1268.1	1269.3	1269.9	1269.3	1268.1	1266.9	1263.4	1259.9	1256.9	1254.6
10°	1280.5	1282.2	1284.6	1285.8	1284.6	1282.2	1280.5	1276.4	1271.6	1266.9	1263.4
12.5°	1286.4	1288.1	1291.1	1290.5	1291.1	1288.1	1286.4	1280.5	1275.2	1268.7	1263.4
15°	1282.2	1284.6	1287.5	1288.7	1287.5	1284.6	1282.2	1276.4	1271.6	1264.6	1259.3
17.5°	1269.3	1272.8	1274.6	1276.4	1274.6	1272.8	1269.3	1264.6	1258.1	1252.2	1246.9
20°	1251.6	1254.0	1256.4	1256.9	1256.4	1254.0	1251.6	1246.3	1236.3	1235.2	1231.0
22.5°	1226.3	1228.1	1233.4	1231.6	1233.4	1228.1	1226.3	1221.6	1218.1	1211.6	1207.5
25°	1189.8	1191.6	1192.2	1192.8	1192.2	1191.6	1189.8	1185.7	1182.2	1177.5	1175.1
27.5°	1126.9	1126.9	1128.1	1128.7	1128.1	1126.9	1126.9	1123.9	1121.6	1119.2	1116.9
30°	1031.6	1031.6	1031.6	1034.5	1031.6	1031.6	1031.6	1031.0	1031.0	1031.6	1031.6
32.5°	921.5	920.3	919.2	920.3	919.2	920.3	921.5	922.1	921.5	923.3	926.2
35°	796.8	796.2	797.9	795.6	797.9	796.2	796.8	796.8	799.1	801.5	802.1
37.5°	677.3	676.1	678.5	676.1	678.5	676.1	677.3	676.7	676.1	677.3	675.6
40°	563.7	564.9	564.9	569.6	564.9	564.9	563.7	562.6	558.4	556.1	553.7
42.5°	454.9	458.4	457.2	460.8	457.2	458.4	454.9	452.5	447.8	443.7	440.2
45°	351.9	354.3	354.3	355.4	354.3	354.3	351.9	349.5	345.4	341.9	339.5
47.5°	270.1	270.1	270.1	270.7	270.1	270.1	270.1	266.0	264.8	262.5	259.5
50°	205.4	206.0	206.6	207.1	206.6	206.0	205.4	204.2	203.6	202.4	201.8
52.5°	157.7	158.3	157.1	158.3	157.1	158.3	157.7	158.3	156.5	156.5	155.9
55°	119.5	118.9	119.5	120.0	119.5	118.9	119.5	119.5	118.9	118.9	118.9
57.5°	87.7	86.5	86.5	86.5	86.5	86.5	87.7	87.1	88.9	87.7	88.3
60°	65.3	65.9	65.9	66.5	65.9	65.9	65.3	66.5	66.5	67.1	67.1
62.5°	48.2	50.0	48.8	50.0	48.8	50.0	48.2	48.8	48.8	49.4	50.0
65°	31.2	31.2	31.2	31.8	31.2	31.2	31.2	31.8	32.4	31.8	33.5
67.5°	21.2	21.8	23.0	22.4	23.0	21.8	21.2	21.8	21.8	23.5	23.0
70°	17.1	15.3	15.3	17.1	15.3	15.3	17.1	15.9	15.3	16.5	15.9
72.5°	10.0	8.8	10.0	10.0	10.0	8.8	10.0	8.8	9.4	9.4	10.6
75°	5.3	4.7	4.1	5.9	4.1	4.7	5.3	5.3	5.3	5.3	5.9
77.5°	3.5	2.9	4.1	4.1	4.1	2.9	3.5	2.9	3.5	2.9	3.5
80°	1.8	2.3	1.8	2.9	1.8	2.3	1.8	2.9	1.8	2.3	2.3
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: P245828

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1217.5	1215.7	1216.3	1212.8	1212.8	1211.6	1212.2	1209.3	1208.1	1206.9	1208.7
5°	1235.2	1232.2	1229.9	1224.6	1221.6	1218.1	1216.3	1211.6	1207.5	1204.0	1203.4
7.5°	1249.3	1242.8	1238.7	1231.6	1226.3	1222.2	1216.3	1209.8	1204.6	1199.8	1196.3
10°	1255.2	1248.7	1242.2	1233.4	1227.5	1219.8	1214.0	1205.7	1198.7	1192.2	1188.1
12.5°	1255.7	1247.5	1241.6	1231.6	1224.0	1215.7	1209.3	1199.8	1191.6	1185.1	1178.7
15°	1250.5	1242.8	1235.7	1225.2	1217.5	1209.8	1202.2	1192.2	1184.6	1176.9	1172.2
17.5°	1238.7	1231.6	1223.4	1213.4	1206.3	1199.3	1191.0	1182.8	1173.9	1165.7	1159.8
20°	1223.4	1215.7	1208.7	1198.7	1192.8	1185.1	1177.5	1168.7	1161.6	1153.4	1146.9
22.5°	1200.4	1193.4	1186.9	1181.0	1171.6	1165.7	1160.4	1150.4	1143.4	1135.7	1128.7
25°	1167.5	1160.4	1155.1	1148.1	1143.9	1137.5	1132.2	1123.4	1116.9	1109.8	1103.9
27.5°	1113.3	1109.2	1106.3	1102.2	1098.6	1095.7	1092.8	1085.7	1081.0	1074.5	1068.6
30°	1032.1	1031.6	1029.8	1028.0	1030.4	1030.4	1030.4	1029.2	1025.1	1020.4	1016.2
32.5°	928.0	929.2	931.5	933.3	938.0	943.3	948.0	950.3	950.3	947.4	945.6
35°	803.8	805.6	809.1	813.8	819.7	826.2	836.8	839.1	840.9	840.9	838.5
37.5°	674.9	674.4	677.9	682.0	685.6	690.3	697.9	699.7	702.6	701.4	699.1
40°	549.6	546.7	545.5	546.7	550.8	549.0	550.8	549.6	549.6	545.5	545.5
42.5°	433.7	430.2	427.8	426.0	426.0	421.9	419.0	416.0	414.3	411.3	410.7
45°	334.3	330.1	327.2	326.0	324.2	318.9	315.4	311.9	307.8	306.6	307.2
47.5°	259.5	255.4	254.2	251.3	248.3	245.4	243.0	238.9	238.3	236.0	238.3
50°	200.1	198.9	197.1	195.9	194.2	191.8	189.5	187.1	185.9	185.9	186.5
52.5°	155.4	155.9	154.2	152.4	151.2	151.2	148.3	147.7	147.7	145.4	147.7
55°	118.9	118.3	118.9	117.7	117.7	115.9	115.9	114.2	114.2	112.4	113.6
57.5°	87.1	88.3	87.1	87.7	88.9	87.1	86.5	84.7	85.9	84.7	85.3
60°	67.7	67.7	67.7	67.1	67.1	66.5	66.5	65.9	65.9	64.7	65.9
62.5°	50.0	50.6	50.6	50.6	51.2	50.6	50.0	50.6	50.0	50.0	50.6
65°	33.0	33.5	33.5	33.0	34.1	33.0	33.5	34.1	34.7	34.1	34.7
67.5°	22.4	22.4	23.0	23.5	23.0	23.5	24.1	23.5	24.1	25.3	24.1
70°	16.5	17.1	17.1	16.5	15.9	16.5	15.9	17.7	17.7	17.7	18.8
72.5°	10.6	10.6	10.0	10.0	10.0	10.0	10.0	11.8	10.6	10.0	11.2
75°	5.9	6.5	6.5	4.7	5.3	6.5	4.7	5.3	7.1	5.9	7.1
77.5°	3.5	3.5	3.5	3.5	3.5	3.5	4.7	4.1	4.1	4.1	4.7
80°	2.9	2.3	2.3	1.8	2.3	2.3	2.3	3.5	2.9	2.9	3.5
82.5°	1.2	1.2	0.6	0.0	1.2	1.2	1.2	1.2	1.2	1.2	2.3
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: P245828

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1204.0	1204.0	1203.4	1202.2	1199.8	1199.8	1199.3	1197.5	1196.3	1195.7	1195.7
5°	1198.1	1195.7	1193.4	1186.9	1186.9	1185.7	1182.2	1179.8	1178.7	1175.7	1174.6
7.5°	1192.8	1185.7	1181.6	1177.5	1172.2	1169.8	1165.7	1163.9	1159.8	1156.9	1155.1
10°	1179.8	1175.1	1169.8	1163.4	1159.2	1154.5	1149.8	1146.3	1141.0	1138.1	1135.7
12.5°	1171.0	1163.9	1159.2	1152.2	1145.1	1141.0	1134.5	1130.4	1125.1	1119.2	1115.7
15°	1162.8	1155.1	1148.7	1141.0	1133.4	1128.7	1121.0	1116.3	1108.6	1102.8	1098.6
17.5°	1150.4	1143.9	1136.9	1127.5	1120.4	1114.5	1106.3	1100.4	1093.3	1085.7	1081.6
20°	1137.5	1129.8	1122.8	1113.3	1106.3	1099.2	1091.0	1084.5	1076.3	1069.2	1064.5
22.5°	1120.4	1111.6	1105.7	1096.3	1088.0	1080.4	1072.8	1065.1	1057.4	1051.6	1046.3
25°	1095.7	1086.3	1079.8	1072.1	1064.5	1058.6	1049.2	1044.5	1036.9	1031.6	1026.2
27.5°	1060.4	1053.3	1047.4	1039.8	1033.3	1028.6	1021.6	1016.9	1010.4	1005.7	1001.5
30°	1008.6	1002.7	997.4	989.8	985.1	981.0	974.5	970.3	965.6	960.3	959.2
32.5°	939.2	934.5	929.2	923.9	920.3	918.0	912.7	910.3	905.6	902.7	899.7
35°	834.4	830.3	827.4	825.0	823.8	824.4	823.3	825.6	826.8	826.2	826.8
37.5°	697.3	695.0	696.1	697.9	703.8	711.4	718.5	729.1	736.2	743.2	749.7
40°	544.3	546.1	550.8	561.4	576.7	593.8	609.6	629.7	649.7	663.8	676.7
42.5°	410.7	416.0	427.8	443.1	466.1	491.3	516.1	545.5	569.6	593.2	609.6
45°	308.9	316.0	331.3	352.5	377.8	407.2	438.4	471.3	500.2	524.3	542.6
47.5°	240.7	247.2	262.5	284.8	316.0	346.6	379.0	413.1	443.1	466.6	482.5
50°	190.1	198.3	211.8	235.4	266.6	298.9	332.5	366.0	394.3	414.3	428.4
52.5°	149.5	157.1	170.1	194.8	226.6	258.9	290.1	323.1	347.8	367.2	376.6
55°	115.9	123.0	136.5	157.1	187.1	218.9	250.1	278.3	301.3	315.4	324.2
57.5°	88.3	93.6	103.0	123.6	150.7	180.1	206.6	234.8	252.5	262.5	268.3
60°	67.1	71.2	81.2	97.1	121.8	147.1	169.5	190.7	204.8	213.0	218.9
62.5°	50.6	55.3	62.4	75.9	94.7	115.3	134.2	150.0	161.8	167.1	171.2
65°	34.7	38.2	43.5	54.1	70.0	84.7	99.5	111.2	118.9	124.8	127.1
67.5°	25.9	28.2	31.2	39.4	50.6	62.4	72.4	80.6	88.9	91.2	95.3
70°	19.4	21.2	24.1	30.0	36.5	44.7	53.0	57.7	63.6	67.7	68.9
72.5°	12.4	12.9	15.9	19.4	24.7	30.0	35.3	39.4	43.0	45.3	46.5
75°	7.1	10.6	10.6	14.1	17.7	20.0	23.5	26.5	28.2	30.0	30.0
77.5°	4.7	6.5	7.1	8.8	10.6	13.5	16.5	18.2	20.0	20.6	20.6
80°	4.1	4.7	4.7	6.5	7.7	10.0	11.8	12.4	13.5	14.1	15.3
82.5°	1.8	2.3	2.9	4.7	5.3	5.3	7.1	7.7	8.8	9.4	9.4
85°	0.6	1.2	1.2	1.8	2.9	3.5	4.1	4.7	5.3	5.3	5.9
87.5°	0.6	0.6	0.0	0.6	1.2	1.2	2.3	2.3	2.3	3.5	3.5
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: P245828

CATALOG NUMBER: LD8B20D010 ER8B20835 8LBSW0GPH

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1	1205.1
2.5°	1194.6	1195.1	1192.8	1192.2	1191.0	1191.6	1192.8
5°	1172.8	1173.4	1171.0	1168.7	1168.7	1168.1	1168.7
7.5°	1152.2	1152.8	1149.2	1148.1	1145.7	1146.3	1146.3
10°	1131.6	1131.6	1126.3	1125.7	1123.9	1123.4	1123.4
12.5°	1111.6	1109.8	1105.7	1103.3	1104.5	1101.0	1101.0
15°	1093.9	1091.0	1085.7	1083.9	1081.0	1079.8	1079.8
17.5°	1075.7	1073.3	1068.6	1065.1	1061.6	1061.0	1061.6
20°	1058.0	1055.7	1049.8	1047.4	1044.5	1044.5	1043.3
22.5°	1040.4	1038.0	1032.7	1031.0	1026.9	1026.9	1027.4
25°	1022.1	1020.4	1014.5	1013.3	1012.7	1010.4	1011.5
27.5°	997.4	996.2	991.5	989.8	987.4	986.8	988.0
30°	952.1	950.3	946.8	945.1	940.9	941.5	942.7
32.5°	895.6	893.3	888.6	886.8	883.3	882.1	882.7
35°	825.0	823.3	819.1	819.1	815.6	814.4	815.6
37.5°	753.2	755.0	753.2	755.0	753.2	752.6	753.2
40°	685.6	692.0	693.2	699.7	697.3	700.8	700.3
42.5°	620.8	631.4	635.5	640.8	639.7	642.0	643.8
45°	555.5	564.3	568.4	572.0	572.6	573.8	574.3
47.5°	493.7	500.8	501.4	505.5	504.9	504.9	506.7
50°	436.1	440.8	441.9	444.9	442.5	441.3	441.9
52.5°	382.5	387.2	386.0	387.2	384.3	383.1	383.7
55°	327.8	330.1	330.1	330.1	326.6	326.6	326.6
57.5°	271.9	272.5	271.3	271.9	271.3	267.7	267.2
60°	220.7	220.7	220.1	220.7	218.9	217.1	217.1
62.5°	172.4	173.6	175.9	173.6	172.4	173.6	171.8
65°	128.9	131.2	130.6	131.8	131.2	131.2	130.0
67.5°	97.1	97.7	98.3	98.9	98.9	98.9	98.9
70°	71.2	73.0	72.4	72.4	72.4	72.4	75.9
72.5°	47.7	50.0	49.4	50.6	50.6	51.8	50.6
75°	32.4	34.7	33.5	35.3	34.7	33.5	36.5
77.5°	21.8	23.0	23.5	24.1	23.5	23.0	23.5
80°	15.3	16.5	15.9	16.5	16.5	16.5	17.1
82.5°	9.4	11.2	10.6	11.2	10.6	11.2	11.2
85°	6.5	7.1	5.9	7.1	6.5	6.5	7.7
87.5°	4.1	3.5	3.5	4.1	3.5	4.1	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)