

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: P245984

Luminaire Tested: **LSR8B20D010 EC8B20850 8LBSW0MW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P245984
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: LSR8B20D010 EC8B20850 8LBSW0MW
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 5000 CCT WITH MATTE WHITE TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2199.0 lumens
Efficiency: N/A
Efficacy: 103.2 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

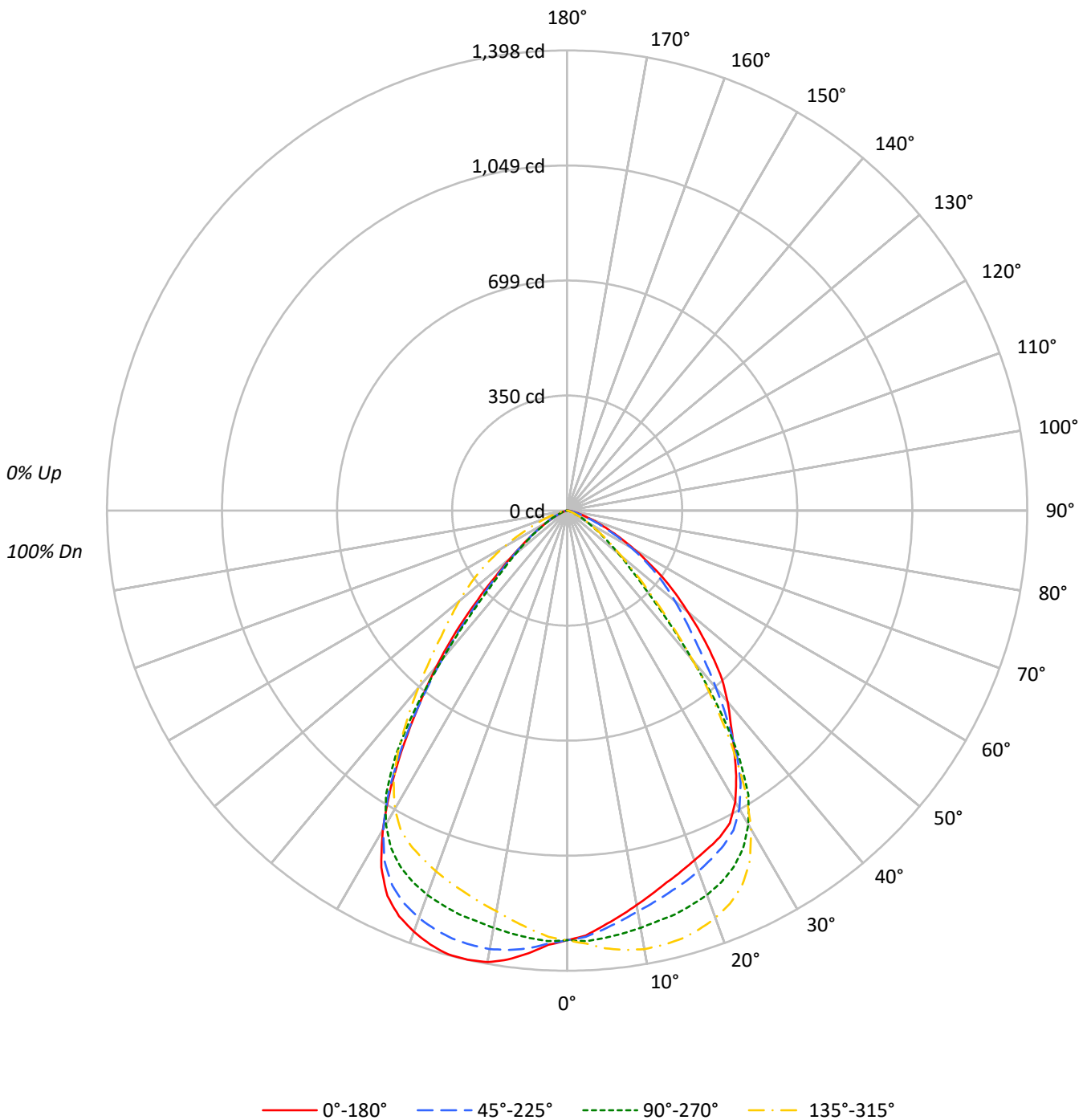
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	40257	40257	40257	40257
5°	39188	40352	41791	40352
10°	38104	40299	43611	40299
15°	37342	40537	44566	40537
20°	37088	40770	44681	40770
25°	37284	40686	43963	40686
30°	36362	39196	39901	39196
35°	33259	34192	32442	34192
40°	30537	23786	24841	23786
45°	27129	14509	16790	14509
50°	22965	9695	10765	9695
55°	19021	6613	6989	6613
60°	14505	4403	4440	4403
65°	10281	2743	2510	2743
70°	7411	1839	1668	1839
75°	4706	917	763	917
80°	3285	675	568	675
85°	2937	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.3	5.7
10°-20°	359.8	16.4
20°-30°	544.9	24.8
30°-40°	546.1	24.8
40°-50°	342.9	15.6
50°-60°	182.7	8.3
60°-70°	75.1	3.4
70°-80°	19.9	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°	1028.9	46.8
0°-40°	1575.0	71.6
0°-60°	2100.7	95.5
0°-90°	2199.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2199.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1306	1306	1306	1306	1306	
5°	1266	1304	1350	1304	1266	119
15°	1170	1270	1396	1270	1170	331
25°	1096	1196	1292	1196	1096	503
35°	884	908	862	908	884	554
45°	622	333	385	333	622	478
55°	354	123	130	123	354	315
65°	141	38	34	38	141	146
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°	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1292.1	1290.8	1290.2	1291.5	1292.1	1294.6	1294.0	1295.3	1295.3	1295.9	1297.2
5°	1266.0	1265.3	1266.0	1266.0	1268.5	1271.1	1270.4	1272.3	1273.6	1276.8	1278.1
7.5°	1241.7	1241.7	1241.1	1243.6	1244.9	1248.8	1248.1	1251.3	1253.2	1256.4	1260.8
10°	1216.9	1216.9	1217.5	1219.4	1220.1	1225.8	1225.8	1230.3	1232.8	1236.0	1241.7
12.5°	1192.7	1192.7	1196.5	1195.2	1197.7	1202.2	1204.1	1208.6	1212.4	1218.8	1224.5
15°	1169.7	1169.7	1171.0	1174.2	1176.1	1181.8	1185.0	1190.1	1194.6	1200.9	1209.2
17.5°	1149.9	1149.3	1149.9	1153.8	1157.6	1162.7	1165.2	1171.6	1176.1	1184.4	1192.0
20°	1130.2	1131.5	1131.5	1134.6	1137.2	1143.6	1146.1	1153.1	1158.2	1165.9	1174.8
22.5°	1113.0	1112.3	1112.3	1116.8	1118.7	1124.4	1127.0	1133.4	1139.1	1145.5	1153.8
25°	1095.8	1094.5	1097.0	1097.7	1098.9	1105.3	1107.2	1111.7	1117.4	1123.2	1131.5
27.5°	1070.3	1069.0	1069.6	1072.2	1074.1	1079.2	1080.5	1084.9	1089.4	1094.5	1101.5
30°	1021.2	1019.9	1019.3	1023.7	1025.7	1029.5	1031.4	1039.0	1040.3	1046.0	1051.1
32.5°	956.1	955.5	956.8	960.6	962.5	967.6	970.2	974.6	977.8	981.0	986.1
35°	883.5	882.2	883.5	887.3	887.3	891.8	893.7	895.6	895.0	895.6	894.3
37.5°	815.9	815.3	815.9	817.8	815.9	817.8	815.9	812.1	805.1	797.4	789.8
40°	758.6	759.2	755.4	757.9	750.9	749.6	742.6	733.1	719.0	703.7	682.1
42.5°	697.4	695.5	692.9	694.2	688.4	684.0	672.5	660.4	642.5	617.1	590.9
45°	622.1	621.5	620.2	619.6	615.8	611.3	601.7	587.7	568.0	541.8	510.6
47.5°	548.8	546.9	546.9	547.6	543.1	542.5	534.8	522.7	505.5	480.0	447.5
50°	478.7	478.1	479.4	481.9	478.7	477.4	472.4	464.1	448.8	427.1	396.5
52.5°	415.6	415.0	416.3	419.4	418.1	419.4	414.3	408.0	397.8	376.7	350.0
55°	353.8	353.8	353.8	357.6	357.6	357.6	355.0	351.2	341.7	326.4	301.5
57.5°	289.4	290.0	293.9	294.5	293.9	295.1	294.5	290.7	284.3	273.5	254.3
60°	235.2	235.2	237.1	239.1	238.4	239.1	239.1	237.1	230.8	221.8	206.5
62.5°	186.1	188.0	186.8	188.0	190.6	188.0	186.8	185.5	181.0	175.3	162.5
65°	140.9	142.2	142.2	142.8	141.5	142.2	139.6	137.7	135.1	128.8	120.5
67.5°	107.1	107.1	107.1	107.1	106.4	105.8	105.2	103.3	98.8	96.3	87.3
70°	82.2	78.4	78.4	78.4	78.4	79.1	77.1	74.6	73.3	68.8	62.5
72.5°	54.8	56.1	54.8	54.8	53.6	54.2	51.6	50.3	49.1	46.5	42.7
75°	39.5	36.3	37.6	38.3	36.3	37.6	35.1	32.5	32.5	30.6	28.7
77.5°	25.5	24.9	25.5	26.1	25.5	24.9	23.6	22.3	22.3	21.7	19.8
80°	18.5	17.8	17.8	17.8	17.2	17.8	16.6	16.6	15.3	14.7	13.4
82.5°	12.1	12.1	11.5	12.1	11.5	12.1	10.2	10.2	10.2	9.6	8.3
85°	8.3	7.0	7.0	7.7	6.4	7.7	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°	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1299.1	1299.7	1299.7	1302.3	1303.6	1304.2	1304.2	1309.3	1307.4	1308.7	1309.9
5°	1280.6	1284.4	1285.7	1285.7	1292.7	1295.3	1297.8	1303.6	1304.2	1308.0	1312.5
7.5°	1262.8	1267.2	1269.8	1275.5	1280.0	1284.4	1292.1	1295.9	1299.7	1304.8	1310.6
10°	1245.6	1250.7	1255.8	1260.2	1267.2	1273.0	1278.1	1287.0	1291.5	1298.5	1306.1
12.5°	1229.0	1236.0	1240.5	1248.1	1255.8	1260.8	1268.5	1276.8	1283.8	1290.8	1299.7
15°	1214.3	1222.6	1227.7	1236.0	1244.3	1251.3	1259.6	1269.8	1274.9	1283.2	1291.5
17.5°	1198.4	1207.3	1213.7	1221.3	1231.5	1239.2	1246.2	1256.4	1262.8	1271.7	1281.3
20°	1181.8	1190.7	1198.4	1206.0	1216.2	1223.9	1232.2	1242.4	1249.4	1258.3	1266.0
22.5°	1162.1	1170.4	1178.6	1187.5	1197.7	1204.1	1213.7	1222.6	1230.3	1238.5	1246.2
25°	1136.6	1146.8	1153.1	1161.4	1169.7	1176.7	1186.9	1195.8	1202.2	1209.9	1216.9
27.5°	1106.6	1114.3	1119.3	1126.4	1134.6	1141.0	1148.7	1157.6	1164.0	1171.0	1176.1
30°	1055.6	1062.6	1067.1	1072.2	1080.5	1086.2	1092.6	1100.8	1105.3	1110.4	1114.9
32.5°	988.7	994.4	996.9	1000.8	1006.5	1012.2	1017.4	1024.4	1026.3	1029.5	1029.5
35°	891.8	893.0	892.4	893.7	896.2	899.4	903.9	908.3	910.9	910.9	909.0
37.5°	778.3	770.7	762.4	756.0	754.1	752.8	755.4	757.3	759.8	761.1	757.9
40°	660.4	643.2	624.7	608.1	596.6	591.6	589.6	590.9	590.9	595.4	595.4
42.5°	559.0	532.3	504.9	480.0	463.4	450.7	444.9	444.9	445.6	448.8	450.7
45°	474.9	441.1	409.2	381.8	358.9	342.3	334.7	332.7	332.1	333.4	337.8
47.5°	410.5	375.5	342.3	308.5	284.3	267.7	260.7	258.2	255.6	258.2	258.8
50°	360.2	323.8	288.8	255.0	229.5	214.8	205.9	202.1	201.4	201.4	202.7
52.5°	314.2	280.5	245.4	211.0	184.2	170.2	161.9	160.0	157.5	160.0	160.0
55°	270.9	237.1	202.7	170.2	147.9	133.2	125.6	123.0	121.7	123.7	123.7
57.5°	223.8	195.1	163.2	133.9	111.6	101.4	95.6	92.4	91.8	93.1	91.8
60°	183.6	159.4	131.9	105.2	88.0	77.1	72.7	71.4	70.1	71.4	71.4
62.5°	145.3	124.9	102.6	82.2	67.6	59.9	54.8	54.8	54.2	54.2	54.8
65°	107.7	91.8	75.9	58.6	47.2	41.4	37.6	37.6	37.0	37.6	37.0
67.5°	78.4	67.6	54.8	42.7	33.8	30.6	28.0	26.1	27.4	26.1	25.5
70°	57.4	48.4	39.5	32.5	26.1	23.0	21.0	20.4	19.1	19.1	19.1
72.5°	38.3	32.5	26.8	21.0	17.2	14.0	13.4	12.1	10.8	11.5	12.8
75°	25.5	21.7	19.1	15.3	11.5	11.5	7.7	7.7	6.4	7.7	5.7
77.5°	17.8	14.7	11.5	9.6	7.7	7.0	5.1	5.1	4.5	4.5	4.5
80°	12.8	10.8	8.3	7.0	5.1	5.1	4.5	3.8	3.2	3.2	3.8
82.5°	7.7	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°	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1313.1	1312.5	1313.8	1313.8	1317.6	1316.9	1318.9	1318.9	1317.6	1318.2	1320.8
5°	1317.6	1319.5	1323.3	1326.5	1332.2	1334.8	1338.0	1341.2	1341.8	1343.7	1345.6
7.5°	1317.6	1324.0	1328.4	1334.2	1341.8	1346.3	1353.3	1359.0	1361.6	1364.7	1368.6
10°	1315.0	1321.4	1329.7	1336.1	1345.6	1352.7	1359.7	1368.6	1372.4	1377.5	1382.6
12.5°	1309.9	1316.9	1325.9	1334.2	1345.0	1351.4	1360.3	1368.6	1374.3	1381.3	1387.1
15°	1302.3	1310.6	1318.9	1327.1	1338.6	1346.3	1354.6	1364.1	1369.9	1377.5	1382.6
17.5°	1290.2	1299.1	1306.8	1314.4	1325.2	1334.2	1341.8	1350.7	1356.5	1362.9	1369.9
20°	1275.5	1283.8	1292.1	1298.5	1309.3	1316.9	1325.2	1333.5	1338.0	1339.3	1350.1
22.5°	1257.0	1262.8	1269.1	1279.3	1285.7	1292.7	1300.4	1308.0	1312.5	1319.5	1323.3
25°	1226.4	1232.2	1239.2	1243.6	1251.3	1257.0	1264.7	1273.0	1275.5	1280.6	1284.4
27.5°	1183.7	1186.9	1190.1	1193.9	1198.4	1201.6	1206.0	1209.9	1212.4	1215.0	1217.5
30°	1116.1	1116.1	1116.1	1113.6	1115.5	1117.4	1118.1	1117.4	1117.4	1116.8	1116.8
32.5°	1026.9	1021.8	1016.1	1011.0	1009.1	1006.5	1005.2	1003.3	1000.2	998.2	998.9
35°	906.4	895.0	888.0	881.6	876.5	872.7	870.7	868.8	868.2	865.7	863.1
37.5°	756.0	747.7	742.6	738.8	734.3	730.5	731.1	731.8	733.7	732.4	733.1
40°	596.6	594.7	596.6	592.2	590.9	592.2	595.4	599.8	602.4	604.9	609.4
42.5°	453.9	457.0	461.5	461.5	463.4	466.0	469.8	476.8	480.6	485.1	490.2
45°	341.7	345.5	351.2	353.1	354.4	357.6	362.1	367.8	370.3	374.2	378.6
47.5°	263.3	265.8	269.0	272.2	275.4	276.6	281.1	281.1	284.3	286.9	288.1
50°	205.3	207.8	210.3	212.3	213.5	215.5	216.7	218.6	219.3	220.6	221.2
52.5°	160.6	163.8	163.8	165.1	167.0	168.9	168.3	168.9	169.5	169.5	171.5
55°	125.6	125.6	127.5	127.5	128.8	128.1	128.8	128.8	128.8	128.8	129.4
57.5°	93.7	94.4	96.3	95.0	94.4	95.6	94.4	95.6	95.0	96.3	94.4
60°	72.0	72.0	72.7	72.7	73.3	73.3	73.3	72.7	72.7	72.0	72.0
62.5°	54.2	54.8	55.5	54.8	54.8	54.8	54.2	54.2	53.6	52.9	52.9
65°	36.3	35.7	37.0	35.7	36.3	36.3	35.7	36.3	34.4	35.1	34.4
67.5°	26.1	25.5	24.9	25.5	24.9	24.2	24.2	24.9	25.5	23.6	23.6
70°	17.2	17.8	17.2	17.8	18.5	18.5	17.8	17.2	17.8	16.6	17.2
72.5°	10.8	10.8	10.8	10.8	10.8	11.5	11.5	11.5	10.2	10.2	9.6
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: P245984

CATALOG NUMBER: LSR8B20D010 EC8B20850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1320.1	1319.5	1320.1	1320.8	1320.1	1319.5	1320.1	1320.8	1318.2	1317.6	1318.9
5°	1348.2	1348.2	1349.5	1350.1	1349.5	1348.2	1348.2	1345.6	1343.7	1341.8	1341.2
7.5°	1372.4	1373.7	1375.0	1375.6	1375.0	1373.7	1372.4	1368.6	1364.7	1361.6	1359.0
10°	1387.1	1389.0	1391.5	1392.8	1391.5	1389.0	1387.1	1382.6	1377.5	1372.4	1368.6
12.5°	1393.5	1395.4	1398.5	1397.9	1398.5	1395.4	1393.5	1387.1	1381.3	1374.3	1368.6
15°	1389.0	1391.5	1394.7	1396.0	1394.7	1391.5	1389.0	1382.6	1377.5	1369.9	1364.1
17.5°	1375.0	1378.8	1380.7	1382.6	1380.7	1378.8	1375.0	1369.9	1362.9	1356.5	1350.7
20°	1355.8	1358.4	1360.9	1361.6	1360.9	1358.4	1355.8	1350.1	1339.3	1338.0	1333.5
22.5°	1328.4	1330.3	1336.1	1334.2	1336.1	1330.3	1328.4	1323.3	1319.5	1312.5	1308.0
25°	1288.9	1290.8	1291.5	1292.1	1291.5	1290.8	1288.9	1284.4	1280.6	1275.5	1273.0
27.5°	1220.7	1220.7	1222.0	1222.6	1222.0	1220.7	1220.7	1217.5	1215.0	1212.4	1209.9
30°	1117.4	1117.4	1117.4	1120.6	1117.4	1117.4	1117.4	1116.8	1116.8	1117.4	1117.4
32.5°	998.2	996.9	995.7	996.9	995.7	996.9	998.2	998.9	998.2	1000.2	1003.3
35°	863.1	862.5	864.4	861.8	864.4	862.5	863.1	863.1	865.7	868.2	868.8
37.5°	733.7	732.4	735.0	732.4	735.0	732.4	733.7	733.1	732.4	733.7	731.8
40°	610.7	611.9	611.9	617.1	611.9	611.9	610.7	609.4	604.9	602.4	599.8
42.5°	492.7	496.6	495.3	499.1	495.3	496.6	492.7	490.2	485.1	480.6	476.8
45°	381.2	383.8	383.8	385.0	383.8	383.8	381.2	378.6	374.2	370.3	367.8
47.5°	292.6	292.6	292.6	293.2	292.6	292.6	292.6	288.1	286.9	284.3	281.1
50°	222.5	223.1	223.8	224.4	223.8	223.1	222.5	221.2	220.6	219.3	218.6
52.5°	170.8	171.5	170.2	171.5	170.2	171.5	170.8	171.5	169.5	169.5	168.9
55°	129.4	128.8	129.4	130.0	129.4	128.8	129.4	129.4	128.8	128.8	128.8
57.5°	95.0	93.7	93.7	93.7	93.7	93.7	95.0	94.4	96.3	95.0	95.6
60°	70.8	71.4	71.4	72.0	71.4	71.4	70.8	72.0	72.0	72.7	72.7
62.5°	52.3	54.2	52.9	54.2	52.9	54.2	52.3	52.9	52.9	53.6	54.2
65°	33.8	33.8	33.8	34.4	33.8	33.8	33.8	34.4	35.1	34.4	36.3
67.5°	23.0	23.6	24.9	24.2	24.9	23.6	23.0	23.6	23.6	25.5	24.9
70°	18.5	16.6	16.6	18.5	16.6	16.6	18.5	17.2	16.6	17.8	17.2
72.5°	10.8	9.6	10.8	10.8	10.8	9.6	10.8	9.6	10.2	10.2	11.5
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: P245984

CATALOG NUMBER: LSR8B20D010 EC8B20850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1318.9	1316.9	1317.6	1313.8	1313.8	1312.5	1313.1	1309.9	1308.7	1307.4	1309.3
5°	1338.0	1334.8	1332.2	1326.5	1323.3	1319.5	1317.6	1312.5	1308.0	1304.2	1303.6
7.5°	1353.3	1346.3	1341.8	1334.2	1328.4	1324.0	1317.6	1310.6	1304.8	1299.7	1295.9
10°	1359.7	1352.7	1345.6	1336.1	1329.7	1321.4	1315.0	1306.1	1298.5	1291.5	1287.0
12.5°	1360.3	1351.4	1345.0	1334.2	1325.9	1316.9	1309.9	1299.7	1290.8	1283.8	1276.8
15°	1354.6	1346.3	1338.6	1327.1	1318.9	1310.6	1302.3	1291.5	1283.2	1274.9	1269.8
17.5°	1341.8	1334.2	1325.2	1314.4	1306.8	1299.1	1290.2	1281.3	1271.7	1262.8	1256.4
20°	1325.2	1316.9	1309.3	1298.5	1292.1	1283.8	1275.5	1266.0	1258.3	1249.4	1242.4
22.5°	1300.4	1292.7	1285.7	1279.3	1269.1	1262.8	1257.0	1246.2	1238.5	1230.3	1222.6
25°	1264.7	1257.0	1251.3	1243.6	1239.2	1232.2	1226.4	1216.9	1209.9	1202.2	1195.8
27.5°	1206.0	1201.6	1198.4	1193.9	1190.1	1186.9	1183.7	1176.1	1171.0	1164.0	1157.6
30°	1118.1	1117.4	1115.5	1113.6	1116.1	1116.1	1116.1	1114.9	1110.4	1105.3	1100.8
32.5°	1005.2	1006.5	1009.1	1011.0	1016.1	1021.8	1026.9	1029.5	1029.5	1026.3	1024.4
35°	870.7	872.7	876.5	881.6	888.0	895.0	906.4	909.0	910.9	910.9	908.3
37.5°	731.1	730.5	734.3	738.8	742.6	747.7	756.0	757.9	761.1	759.8	757.3
40°	595.4	592.2	590.9	592.2	596.6	594.7	596.6	595.4	595.4	590.9	590.9
42.5°	469.8	466.0	463.4	461.5	461.5	457.0	453.9	450.7	448.8	445.6	444.9
45°	362.1	357.6	354.4	353.1	351.2	345.5	341.7	337.8	333.4	332.1	332.7
47.5°	281.1	276.6	275.4	272.2	269.0	265.8	263.3	258.8	258.2	255.6	258.2
50°	216.7	215.5	213.5	212.3	210.3	207.8	205.3	202.7	201.4	201.4	202.1
52.5°	168.3	168.9	167.0	165.1	163.8	163.8	160.6	160.0	160.0	157.5	160.0
55°	128.8	128.1	128.8	127.5	127.5	125.6	125.6	123.7	123.7	121.7	123.0
57.5°	94.4	95.6	94.4	95.0	96.3	94.4	93.7	91.8	93.1	91.8	92.4
60°	73.3	73.3	73.3	72.7	72.7	72.0	72.0	71.4	71.4	70.1	71.4
62.5°	54.2	54.8	54.8	54.8	55.5	54.8	54.2	54.8	54.2	54.2	54.8
65°	35.7	36.3	36.3	35.7	37.0	35.7	36.3	37.0	37.6	37.0	37.6
67.5°	24.2	24.2	24.9	25.5	24.9	25.5	26.1	25.5	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	20.4
72.5°	11.5	11.5	10.8	10.8	10.8	10.8	10.8	12.8	11.5	10.8	12.1
75°	6.4	7.0	7.0	5.1	5.7	7.0	5.1	5.7	7.7	6.4	7.7
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: P245984

CATALOG NUMBER: LSR8B20D010 EC8B20850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1304.2	1304.2	1303.6	1302.3	1299.7	1299.7	1299.1	1297.2	1295.9	1295.3	1295.3
5°	1297.8	1295.3	1292.7	1285.7	1285.7	1284.4	1280.6	1278.1	1276.8	1273.6	1272.3
7.5°	1292.1	1284.4	1280.0	1275.5	1269.8	1267.2	1262.8	1260.8	1256.4	1253.2	1251.3
10°	1278.1	1273.0	1267.2	1260.2	1255.8	1250.7	1245.6	1241.7	1236.0	1232.8	1230.3
12.5°	1268.5	1260.8	1255.8	1248.1	1240.5	1236.0	1229.0	1224.5	1218.8	1212.4	1208.6
15°	1259.6	1251.3	1244.3	1236.0	1227.7	1222.6	1214.3	1209.2	1200.9	1194.6	1190.1
17.5°	1246.2	1239.2	1231.5	1221.3	1213.7	1207.3	1198.4	1192.0	1184.4	1176.1	1171.6
20°	1232.2	1223.9	1216.2	1206.0	1198.4	1190.7	1181.8	1174.8	1165.9	1158.2	1153.1
22.5°	1213.7	1204.1	1197.7	1187.5	1178.6	1170.4	1162.1	1153.8	1145.5	1139.1	1133.4
25°	1186.9	1176.7	1169.7	1161.4	1153.1	1146.8	1136.6	1131.5	1123.2	1117.4	1111.7
27.5°	1148.7	1141.0	1134.6	1126.4	1119.3	1114.3	1106.6	1101.5	1094.5	1089.4	1084.9
30°	1092.6	1086.2	1080.5	1072.2	1067.1	1062.6	1055.6	1051.1	1046.0	1040.3	1039.0
32.5°	1017.4	1012.2	1006.5	1000.8	996.9	994.4	988.7	986.1	981.0	977.8	974.6
35°	903.9	899.4	896.2	893.7	892.4	893.0	891.8	894.3	895.6	895.0	895.6
37.5°	755.4	752.8	754.1	756.0	762.4	770.7	778.3	789.8	797.4	805.1	812.1
40°	589.6	591.6	596.6	608.1	624.7	643.2	660.4	682.1	703.7	719.0	733.1
42.5°	444.9	450.7	463.4	480.0	504.9	532.3	559.0	590.9	617.1	642.5	660.4
45°	334.7	342.3	358.9	381.8	409.2	441.1	474.9	510.6	541.8	568.0	587.7
47.5°	260.7	267.7	284.3	308.5	342.3	375.5	410.5	447.5	480.0	505.5	522.7
50°	205.9	214.8	229.5	255.0	288.8	323.8	360.2	396.5	427.1	448.8	464.1
52.5°	161.9	170.2	184.2	211.0	245.4	280.5	314.2	350.0	376.7	397.8	408.0
55°	125.6	133.2	147.9	170.2	202.7	237.1	270.9	301.5	326.4	341.7	351.2
57.5°	95.6	101.4	111.6	133.9	163.2	195.1	223.8	254.3	273.5	284.3	290.7
60°	72.7	77.1	88.0	105.2	131.9	159.4	183.6	206.5	221.8	230.8	237.1
62.5°	54.8	59.9	67.6	82.2	102.6	124.9	145.3	162.5	175.3	181.0	185.5
65°	37.6	41.4	47.2	58.6	75.9	91.8	107.7	120.5	128.8	135.1	137.7
67.5°	28.0	30.6	33.8	42.7	54.8	67.6	78.4	87.3	96.3	98.8	103.3
70°	21.0	23.0	26.1	32.5	39.5	48.4	57.4	62.5	68.8	73.3	74.6
72.5°	13.4	14.0	17.2	21.0	26.8	32.5	38.3	42.7	46.5	49.1	50.3
75°	7.7	11.5	11.5	15.3	19.1	21.7	25.5	28.7	30.6	32.5	32.5
77.5°	5.1	7.0	7.7	9.6	11.5	14.7	17.8	19.8	21.7	22.3	22.3
80°	4.5	5.1	5.1	7.0	8.3	10.8	12.8	13.4	14.7	15.3	16.6
82.5°	1.9	2.5	3.2	5.1	5.7	5.7	7.7	8.3	9.6	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: P245984

CATALOG NUMBER: LSR8B20D010 EC8B20850 8LBSW0MW

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5	1305.5
2.5°	1294.0	1294.6	1292.1	1291.5	1290.2	1290.8	1292.1
5°	1270.4	1271.1	1268.5	1266.0	1266.0	1265.3	1266.0
7.5°	1248.1	1248.8	1244.9	1243.6	1241.1	1241.7	1241.7
10°	1225.8	1225.8	1220.1	1219.4	1217.5	1216.9	1216.9
12.5°	1204.1	1202.2	1197.7	1195.2	1196.5	1192.7	1192.7
15°	1185.0	1181.8	1176.1	1174.2	1171.0	1169.7	1169.7
17.5°	1165.2	1162.7	1157.6	1153.8	1149.9	1149.3	1149.9
20°	1146.1	1143.6	1137.2	1134.6	1131.5	1131.5	1130.2
22.5°	1127.0	1124.4	1118.7	1116.8	1112.3	1112.3	1113.0
25°	1107.2	1105.3	1098.9	1097.7	1097.0	1094.5	1095.8
27.5°	1080.5	1079.2	1074.1	1072.2	1069.6	1069.0	1070.3
30°	1031.4	1029.5	1025.7	1023.7	1019.3	1019.9	1021.2
32.5°	970.2	967.6	962.5	960.6	956.8	955.5	956.1
35°	893.7	891.8	887.3	887.3	883.5	882.2	883.5
37.5°	815.9	817.8	815.9	817.8	815.9	815.3	815.9
40°	742.6	749.6	750.9	757.9	755.4	759.2	758.6
42.5°	672.5	684.0	688.4	694.2	692.9	695.5	697.4
45°	601.7	611.3	615.8	619.6	620.2	621.5	622.1
47.5°	534.8	542.5	543.1	547.6	546.9	546.9	548.8
50°	472.4	477.4	478.7	481.9	479.4	478.1	478.7
52.5°	414.3	419.4	418.1	419.4	416.3	415.0	415.6
55°	355.0	357.6	357.6	357.6	353.8	353.8	353.8
57.5°	294.5	295.1	293.9	294.5	293.9	290.0	289.4
60°	239.1	239.1	238.4	239.1	237.1	235.2	235.2
62.5°	186.8	188.0	190.6	188.0	186.8	188.0	186.1
65°	139.6	142.2	141.5	142.8	142.2	142.2	140.9
67.5°	105.2	105.8	106.4	107.1	107.1	107.1	107.1
70°	77.1	79.1	78.4	78.4	78.4	78.4	82.2
72.5°	51.6	54.2	53.6	54.8	54.8	56.1	54.8
75°	35.1	37.6	36.3	38.3	37.6	36.3	39.5
77.5°	23.6	24.9	25.5	26.1	25.5	24.9	25.5
80°	16.6	17.8	17.2	17.8	17.8	17.8	18.5
82.5°	10.2	12.1	11.5	12.1	11.5	12.1	12.1
85°	7.0	7.7	6.4	7.7	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)