

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: P244538

Luminaire Tested: **LSR8B20D010 EC8B20840 8LBSW0H**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244538
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 EC8B20840 8LBSW0H
Description: PORTFOLIO 8 INCH SINGLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
80 CRI 4000 CCT WITH SEMI-SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2179.0 lumens
Efficiency: N/A
Efficacy: 102.3 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

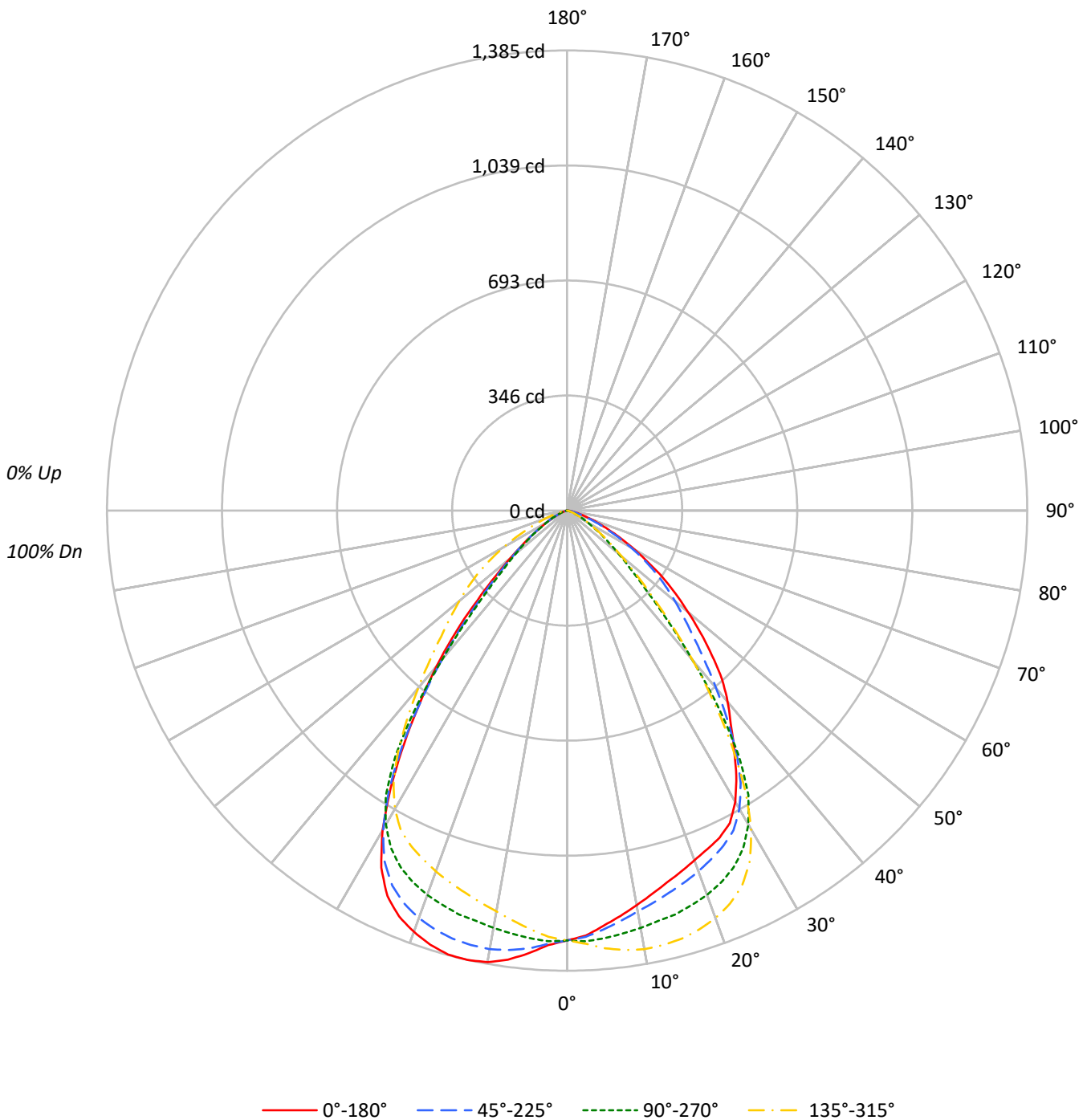
Input Watts (W): 21.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	39890	39890	39890	39890
5°	38829	39983	41410	39983
10°	37756	39932	43214	39932
15°	37003	40167	44161	40167
20°	36750	40399	44274	40399
25°	36943	40319	43561	40319
30°	36030	38840	39538	38840
35°	32957	33884	32148	33884
40°	30259	23569	24611	23569
45°	26885	14378	16637	14378
50°	22758	9604	10664	9604
55°	18849	6554	6930	6554
60°	14376	4360	4403	4360
65°	10186	2722	2488	2722
70°	7348	1821	1650	1821
75°	4670	905	751	905
80°	3250	675	550	675
85°	2901	0	212	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	5.7
10°-20°	356.6	16.4
20°-30°	539.9	24.8
30°-40°	541.1	24.8
40°-50°	339.8	15.6
50°-60°	181.1	8.3
60°-70°	74.5	3.4
70°-80°	19.7	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°	1019.6	46.8
0°-40°	1560.7	71.6
0°-60°	2081.5	95.5
0°-90°	2179.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2179.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1294	1294	1294	1294	1294	
5°	1254	1292	1338	1292	1254	118
15°	1159	1258	1383	1258	1159	328
25°	1086	1185	1280	1185	1086	498
35°	876	900	854	900	876	548
45°	616	330	382	330	616	474
55°	351	122	129	122	351	313
65°	140	37	34	37	140	145
75°	39	8	6	8	39	44
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°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1280.3	1279.1	1278.4	1279.7	1280.3	1282.9	1282.2	1283.5	1283.5	1284.1	1285.4
5°	1254.4	1253.8	1254.4	1254.4	1257.0	1259.5	1258.9	1260.8	1262.0	1265.2	1266.4
7.5°	1230.5	1230.5	1229.8	1232.3	1233.6	1237.4	1236.7	1239.9	1241.8	1245.0	1249.4
10°	1205.8	1205.8	1206.4	1208.3	1209.0	1214.6	1214.6	1219.1	1221.6	1224.8	1230.5
12.5°	1181.8	1181.8	1185.6	1184.3	1186.9	1191.3	1193.2	1197.6	1201.4	1207.7	1213.4
15°	1159.1	1159.1	1160.3	1163.5	1165.4	1171.1	1174.2	1179.3	1183.7	1190.0	1198.2
17.5°	1139.5	1138.9	1139.5	1143.3	1147.1	1152.1	1154.6	1161.0	1165.4	1173.6	1181.2
20°	1119.9	1121.2	1121.2	1124.3	1126.8	1133.2	1135.7	1142.7	1147.7	1155.3	1164.1
22.5°	1102.8	1102.2	1102.2	1106.6	1108.5	1114.2	1116.7	1123.1	1128.7	1135.1	1143.3
25°	1085.8	1084.5	1087.1	1087.7	1088.9	1095.3	1097.2	1101.6	1107.3	1113.0	1121.2
27.5°	1060.5	1059.3	1059.9	1062.4	1064.3	1069.4	1070.6	1075.1	1079.5	1084.5	1091.5
30°	1011.9	1010.6	1010.0	1014.4	1016.3	1020.1	1022.0	1029.6	1030.8	1036.5	1041.6
32.5°	947.5	946.8	948.1	951.9	953.8	958.8	961.4	965.8	968.9	972.1	977.1
35°	875.5	874.2	875.5	879.3	879.3	883.7	885.6	887.4	886.8	887.4	886.2
37.5°	808.5	807.9	808.5	810.4	808.5	810.4	808.5	804.7	797.8	790.2	782.6
40°	751.7	752.3	748.5	751.0	744.1	742.8	735.9	726.4	712.5	697.3	675.9
42.5°	691.0	689.1	686.6	687.9	682.2	677.7	666.4	654.4	636.7	611.4	585.5
45°	616.5	615.9	614.6	614.0	610.2	605.7	596.3	582.4	562.8	536.9	505.9
47.5°	543.8	541.9	541.9	542.6	538.2	537.5	529.9	518.0	500.9	475.6	443.4
50°	474.4	473.7	475.0	477.5	474.4	473.1	468.1	459.8	444.7	423.2	392.9
52.5°	411.8	411.2	412.5	415.6	414.3	415.6	410.6	404.3	394.1	373.3	346.8
55°	350.6	350.6	350.6	354.3	354.3	354.3	351.8	348.0	338.6	323.4	298.8
57.5°	286.8	287.4	291.2	291.8	291.2	292.5	291.8	288.0	281.7	271.0	252.0
60°	233.1	233.1	235.0	236.9	236.2	236.9	236.9	235.0	228.7	219.8	204.7
62.5°	184.4	186.3	185.1	186.3	188.9	186.3	185.1	183.8	179.4	173.7	161.1
65°	139.6	140.9	140.9	141.5	140.2	140.9	138.3	136.4	133.9	127.6	119.4
67.5°	106.1	106.1	106.1	106.1	105.5	104.9	104.2	102.3	97.9	95.4	86.5
70°	81.5	77.7	77.7	77.7	77.7	78.3	76.4	73.9	72.6	68.2	61.9
72.5°	54.3	55.6	54.3	54.3	53.1	53.7	51.2	49.9	48.6	46.1	42.3
75°	39.2	36.0	37.3	37.9	36.0	37.3	34.7	32.2	32.2	30.3	28.4
77.5°	25.3	24.6	25.3	25.9	25.3	24.6	23.4	22.1	22.1	21.5	19.6
80°	18.3	17.7	17.7	17.7	17.1	17.7	16.4	16.4	15.2	14.5	13.3
82.5°	12.0	12.0	11.4	12.0	11.4	12.0	10.1	10.1	10.1	9.5	8.2
85°	8.2	6.9	6.9	7.6	6.3	7.6	6.9	6.3	5.7	5.7	5.0
87.5°	3.8	4.4	3.8	4.4	3.8	3.8	4.4	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°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1287.3	1287.9	1287.9	1290.5	1291.7	1292.3	1292.3	1297.4	1295.5	1296.8	1298.0
5°	1269.0	1272.8	1274.0	1274.0	1281.0	1283.5	1286.0	1291.7	1292.3	1296.1	1300.5
7.5°	1251.3	1255.7	1258.2	1263.9	1268.3	1272.8	1280.3	1284.1	1287.9	1293.0	1298.6
10°	1234.2	1239.3	1244.3	1248.8	1255.7	1261.4	1266.4	1275.3	1279.7	1286.7	1294.2
12.5°	1217.8	1224.8	1229.2	1236.7	1244.3	1249.4	1257.0	1265.2	1272.1	1279.1	1287.9
15°	1203.3	1211.5	1216.5	1224.8	1233.0	1239.9	1248.1	1258.2	1263.3	1271.5	1279.7
17.5°	1187.5	1196.3	1202.7	1210.2	1220.3	1227.9	1234.9	1245.0	1251.3	1260.1	1269.6
20°	1171.1	1179.9	1187.5	1195.1	1205.2	1212.7	1221.0	1231.1	1238.0	1246.9	1254.4
22.5°	1151.5	1159.7	1167.9	1176.7	1186.9	1193.2	1202.7	1211.5	1219.1	1227.3	1234.9
25°	1126.2	1136.3	1142.7	1150.8	1159.1	1166.0	1176.1	1185.0	1191.3	1198.9	1205.8
27.5°	1096.5	1104.1	1109.2	1116.1	1124.3	1130.6	1138.2	1147.1	1153.4	1160.3	1165.4
30°	1046.0	1053.0	1057.4	1062.4	1070.6	1076.3	1082.6	1090.8	1095.3	1100.3	1104.7
32.5°	979.7	985.4	987.9	991.7	997.4	1003.0	1008.1	1015.1	1016.9	1020.1	1020.1
35°	883.7	884.9	884.3	885.6	888.1	891.2	895.7	900.1	902.6	902.6	900.7
37.5°	771.2	763.7	755.5	749.1	747.2	746.0	748.5	750.4	752.9	754.2	751.0
40°	654.4	637.3	619.0	602.6	591.2	586.2	584.3	585.5	585.5	589.9	589.9
42.5°	554.0	527.4	500.3	475.6	459.2	446.6	440.9	440.9	441.5	444.7	446.6
45°	470.6	437.1	405.5	378.4	355.6	339.2	331.6	329.7	329.1	330.3	334.8
47.5°	406.8	372.0	339.2	305.7	281.7	265.3	258.4	255.8	253.3	255.8	256.5
50°	356.9	320.9	286.1	252.7	227.4	212.9	204.0	200.2	199.6	199.6	200.9
52.5°	311.4	277.9	243.2	209.1	182.5	168.7	160.4	158.5	156.0	158.5	158.5
55°	268.4	235.0	200.9	168.7	146.5	132.0	124.4	121.9	120.6	122.5	122.5
57.5°	221.7	193.3	161.7	132.6	110.5	100.4	94.7	91.6	90.9	92.2	90.9
60°	181.9	157.9	130.7	104.2	87.2	76.4	72.0	70.7	69.5	70.7	70.7
62.5°	144.0	123.8	101.7	81.5	66.9	59.4	54.3	54.3	53.7	53.7	54.3
65°	106.8	90.9	75.2	58.1	46.7	41.1	37.3	37.3	36.6	37.3	36.6
67.5°	77.7	66.9	54.3	42.3	33.5	30.3	27.8	25.9	27.2	25.9	25.3
70°	56.9	48.0	39.2	32.2	25.9	22.7	20.9	20.2	19.0	19.0	19.0
72.5°	37.9	32.2	26.5	20.9	17.1	13.9	13.3	12.0	10.7	11.4	12.6
75°	25.3	21.5	19.0	15.2	11.4	11.4	7.6	7.6	6.3	7.6	5.7
77.5°	17.7	14.5	11.4	9.5	7.6	6.9	5.0	5.0	4.4	4.4	4.4
80°	12.6	10.7	8.2	6.9	5.0	5.0	4.4	3.8	3.1	3.1	3.8
82.5°	7.6	5.7	5.7	5.0	3.1	2.5	1.9	2.5	1.3	1.3	1.3
85°	4.4	3.8	3.1	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°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1301.2	1300.5	1301.8	1301.8	1305.6	1305.0	1306.9	1306.9	1305.6	1306.2	1308.8
5°	1305.6	1307.5	1311.3	1314.5	1320.1	1322.7	1325.8	1329.0	1329.6	1331.5	1333.4
7.5°	1305.6	1311.9	1316.4	1322.0	1329.6	1334.0	1341.0	1346.7	1349.2	1352.3	1356.1
10°	1303.1	1309.4	1317.6	1323.9	1333.4	1340.3	1347.3	1356.1	1359.9	1365.0	1370.0
12.5°	1298.0	1305.0	1313.8	1322.0	1332.8	1339.1	1347.9	1356.1	1361.8	1368.8	1374.5
15°	1290.5	1298.6	1306.9	1315.1	1326.4	1334.0	1342.2	1351.7	1357.4	1365.0	1370.0
17.5°	1278.4	1287.3	1294.9	1302.4	1313.2	1322.0	1329.6	1338.5	1344.1	1350.5	1357.4
20°	1263.9	1272.1	1280.3	1286.7	1297.4	1305.0	1313.2	1321.4	1325.8	1327.1	1337.8
22.5°	1245.6	1251.3	1257.6	1267.7	1274.0	1281.0	1288.6	1296.1	1300.5	1307.5	1311.3
25°	1215.3	1221.0	1227.9	1232.3	1239.9	1245.6	1253.2	1261.4	1263.9	1269.0	1272.8
27.5°	1173.0	1176.1	1179.3	1183.1	1187.5	1190.6	1195.1	1198.9	1201.4	1203.9	1206.4
30°	1106.0	1106.0	1106.0	1103.5	1105.4	1107.3	1107.9	1107.3	1107.3	1106.6	1106.6
32.5°	1017.6	1012.5	1006.8	1001.8	999.9	997.4	996.1	994.2	991.1	989.2	989.8
35°	898.2	886.8	879.9	873.6	868.5	864.7	862.8	860.9	860.3	857.8	855.2
37.5°	749.1	740.9	735.9	732.1	727.7	723.9	724.5	725.1	727.0	725.8	726.4
40°	591.2	589.3	591.2	586.8	585.5	586.8	589.9	594.4	596.9	599.4	603.9
42.5°	449.7	452.9	457.3	457.3	459.2	461.7	465.5	472.5	476.2	480.7	485.7
45°	338.6	342.4	348.0	349.9	351.2	354.3	358.8	364.5	367.0	370.8	375.2
47.5°	260.9	263.4	266.5	269.7	272.9	274.1	278.6	278.6	281.7	284.2	285.5
50°	203.4	205.9	208.4	210.3	211.6	213.5	214.8	216.6	217.3	218.5	219.2
52.5°	159.2	162.3	162.3	163.6	165.5	167.4	166.8	167.4	168.0	168.0	169.9
55°	124.4	124.4	126.3	126.3	127.6	127.0	127.6	127.6	127.6	127.6	128.2
57.5°	92.8	93.5	95.4	94.1	93.5	94.7	93.5	94.7	94.1	95.4	93.5
60°	71.4	71.4	72.0	72.0	72.6	72.6	72.6	72.0	72.0	71.4	71.4
62.5°	53.7	54.3	55.0	54.3	54.3	54.3	53.7	53.7	53.1	52.4	52.4
65°	36.0	35.4	36.6	35.4	36.0	36.0	35.4	36.0	34.1	34.7	34.1
67.5°	25.9	25.3	24.6	25.3	24.6	24.0	24.0	24.6	25.3	23.4	23.4
70°	17.1	17.7	17.1	17.7	18.3	18.3	17.7	17.1	17.7	16.4	17.1
72.5°	10.7	10.7	10.7	10.7	10.7	11.4	11.4	11.4	10.1	10.1	9.5
75°	5.0	6.9	5.7	5.0	6.9	6.9	6.3	6.3	5.7	5.7	5.7
77.5°	5.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.1	3.8	3.1
80°	2.5	2.5	2.5	1.9	2.5	2.5	3.1	2.5	2.5	1.9	3.1
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: P244538

CATALOG NUMBER: LSR8B20D010 EC8B20840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1308.1	1307.5	1308.1	1308.8	1308.1	1307.5	1308.1	1308.8	1306.2	1305.6	1306.9
5°	1335.9	1335.9	1337.2	1337.8	1337.2	1335.9	1335.9	1333.4	1331.5	1329.6	1329.0
7.5°	1359.9	1361.2	1362.4	1363.1	1362.4	1361.2	1359.9	1356.1	1352.3	1349.2	1346.7
10°	1374.5	1376.4	1378.9	1380.1	1378.9	1376.4	1374.5	1370.0	1365.0	1359.9	1356.1
12.5°	1380.8	1382.7	1385.8	1385.2	1385.8	1382.7	1380.8	1374.5	1368.8	1361.8	1356.1
15°	1376.4	1378.9	1382.0	1383.3	1382.0	1378.9	1376.4	1370.0	1365.0	1357.4	1351.7
17.5°	1362.4	1366.2	1368.1	1370.0	1368.1	1366.2	1362.4	1357.4	1350.5	1344.1	1338.5
20°	1343.5	1346.0	1348.6	1349.2	1348.6	1346.0	1343.5	1337.8	1327.1	1325.8	1321.4
22.5°	1316.4	1318.3	1323.9	1322.0	1323.9	1318.3	1316.4	1311.3	1307.5	1300.5	1296.1
25°	1277.2	1279.1	1279.7	1280.3	1279.7	1279.1	1277.2	1272.8	1269.0	1263.9	1261.4
27.5°	1209.6	1209.6	1210.8	1211.5	1210.8	1209.6	1209.6	1206.4	1203.9	1201.4	1198.9
30°	1107.3	1107.3	1107.3	1110.4	1107.3	1107.3	1107.3	1106.6	1106.6	1107.3	1107.3
32.5°	989.2	987.9	986.6	987.9	986.6	987.9	989.2	989.8	989.2	991.1	994.2
35°	855.2	854.6	856.5	854.0	856.5	854.6	855.2	855.2	857.8	860.3	860.9
37.5°	727.0	725.8	728.3	725.8	728.3	725.8	727.0	726.4	725.8	727.0	725.1
40°	605.1	606.4	606.4	611.4	606.4	606.4	605.1	603.9	599.4	596.9	594.4
42.5°	488.3	492.1	490.8	494.6	490.8	492.1	488.3	485.7	480.7	476.2	472.5
45°	377.7	380.3	380.3	381.5	380.3	380.3	377.7	375.2	370.8	367.0	364.5
47.5°	289.9	289.9	289.9	290.6	289.9	289.9	289.9	285.5	284.2	281.7	278.6
50°	220.4	221.1	221.7	222.3	221.7	221.1	220.4	219.2	218.5	217.3	216.6
52.5°	169.3	169.9	168.7	169.9	168.7	169.9	169.3	169.9	168.0	168.0	167.4
55°	128.2	127.6	128.2	128.9	128.2	127.6	128.2	128.2	127.6	127.6	127.6
57.5°	94.1	92.8	92.8	92.8	92.8	92.8	94.1	93.5	95.4	94.1	94.7
60°	70.1	70.7	70.7	71.4	70.7	70.7	70.1	71.4	71.4	72.0	72.0
62.5°	51.8	53.7	52.4	53.7	52.4	53.7	51.8	52.4	52.4	53.1	53.7
65°	33.5	33.5	33.5	34.1	33.5	33.5	33.5	34.1	34.7	34.1	36.0
67.5°	22.7	23.4	24.6	24.0	24.6	23.4	22.7	23.4	23.4	25.3	24.6
70°	18.3	16.4	16.4	18.3	16.4	16.4	18.3	17.1	16.4	17.7	17.1
72.5°	10.7	9.5	10.7	10.7	10.7	9.5	10.7	9.5	10.1	10.1	11.4
75°	5.7	5.0	4.4	6.3	4.4	5.0	5.7	5.7	5.7	5.7	6.3
77.5°	3.8	3.1	4.4	4.4	4.4	3.1	3.8	3.1	3.8	3.1	3.8
80°	1.9	2.5	1.9	3.1	1.9	2.5	1.9	3.1	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: P244538

CATALOG NUMBER: LSR8B20D010 EC8B20840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1306.9	1305.0	1305.6	1301.8	1301.8	1300.5	1301.2	1298.0	1296.8	1295.5	1297.4
5°	1325.8	1322.7	1320.1	1314.5	1311.3	1307.5	1305.6	1300.5	1296.1	1292.3	1291.7
7.5°	1341.0	1334.0	1329.6	1322.0	1316.4	1311.9	1305.6	1298.6	1293.0	1287.9	1284.1
10°	1347.3	1340.3	1333.4	1323.9	1317.6	1309.4	1303.1	1294.2	1286.7	1279.7	1275.3
12.5°	1347.9	1339.1	1332.8	1322.0	1313.8	1305.0	1298.0	1287.9	1279.1	1272.1	1265.2
15°	1342.2	1334.0	1326.4	1315.1	1306.9	1298.6	1290.5	1279.7	1271.5	1263.3	1258.2
17.5°	1329.6	1322.0	1313.2	1302.4	1294.9	1287.3	1278.4	1269.6	1260.1	1251.3	1245.0
20°	1313.2	1305.0	1297.4	1286.7	1280.3	1272.1	1263.9	1254.4	1246.9	1238.0	1231.1
22.5°	1288.6	1281.0	1274.0	1267.7	1257.6	1251.3	1245.6	1234.9	1227.3	1219.1	1211.5
25°	1253.2	1245.6	1239.9	1232.3	1227.9	1221.0	1215.3	1205.8	1198.9	1191.3	1185.0
27.5°	1195.1	1190.6	1187.5	1183.1	1179.3	1176.1	1173.0	1165.4	1160.3	1153.4	1147.1
30°	1107.9	1107.3	1105.4	1103.5	1106.0	1106.0	1106.0	1104.7	1100.3	1095.3	1090.8
32.5°	996.1	997.4	999.9	1001.8	1006.8	1012.5	1017.6	1020.1	1020.1	1016.9	1015.1
35°	862.8	864.7	868.5	873.6	879.9	886.8	898.2	900.7	902.6	902.6	900.1
37.5°	724.5	723.9	727.7	732.1	735.9	740.9	749.1	751.0	754.2	752.9	750.4
40°	589.9	586.8	585.5	586.8	591.2	589.3	591.2	589.9	589.9	585.5	585.5
42.5°	465.5	461.7	459.2	457.3	457.3	452.9	449.7	446.6	444.7	441.5	440.9
45°	358.8	354.3	351.2	349.9	348.0	342.4	338.6	334.8	330.3	329.1	329.7
47.5°	278.6	274.1	272.9	269.7	266.5	263.4	260.9	256.5	255.8	253.3	255.8
50°	214.8	213.5	211.6	210.3	208.4	205.9	203.4	200.9	199.6	199.6	200.2
52.5°	166.8	167.4	165.5	163.6	162.3	162.3	159.2	158.5	158.5	156.0	158.5
55°	127.6	127.0	127.6	126.3	126.3	124.4	124.4	122.5	122.5	120.6	121.9
57.5°	93.5	94.7	93.5	94.1	95.4	93.5	92.8	90.9	92.2	90.9	91.6
60°	72.6	72.6	72.6	72.0	72.0	71.4	71.4	70.7	70.7	69.5	70.7
62.5°	53.7	54.3	54.3	54.3	55.0	54.3	53.7	54.3	53.7	53.7	54.3
65°	35.4	36.0	36.0	35.4	36.6	35.4	36.0	36.6	37.3	36.6	37.3
67.5°	24.0	24.0	24.6	25.3	24.6	25.3	25.9	25.3	25.9	27.2	25.9
70°	17.7	18.3	18.3	17.7	17.1	17.7	17.1	19.0	19.0	19.0	20.2
72.5°	11.4	11.4	10.7	10.7	10.7	10.7	10.7	12.6	11.4	10.7	12.0
75°	6.3	6.9	6.9	5.0	5.7	6.9	5.0	5.7	7.6	6.3	7.6
77.5°	3.8	3.8	3.8	3.8	3.8	3.8	5.0	4.4	4.4	4.4	5.0
80°	3.1	2.5	2.5	1.9	2.5	2.5	2.5	3.8	3.1	3.1	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: P244538

CATALOG NUMBER: LSR8B20D010 EC8B20840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°
0°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1292.3	1292.3	1291.7	1290.5	1287.9	1287.9	1287.3	1285.4	1284.1	1283.5	1283.5
5°	1286.0	1283.5	1281.0	1274.0	1274.0	1272.8	1269.0	1266.4	1265.2	1262.0	1260.8
7.5°	1280.3	1272.8	1268.3	1263.9	1258.2	1255.7	1251.3	1249.4	1245.0	1241.8	1239.9
10°	1266.4	1261.4	1255.7	1248.8	1244.3	1239.3	1234.2	1230.5	1224.8	1221.6	1219.1
12.5°	1257.0	1249.4	1244.3	1236.7	1229.2	1224.8	1217.8	1213.4	1207.7	1201.4	1197.6
15°	1248.1	1239.9	1233.0	1224.8	1216.5	1211.5	1203.3	1198.2	1190.0	1183.7	1179.3
17.5°	1234.9	1227.9	1220.3	1210.2	1202.7	1196.3	1187.5	1181.2	1173.6	1165.4	1161.0
20°	1221.0	1212.7	1205.2	1195.1	1187.5	1179.9	1171.1	1164.1	1155.3	1147.7	1142.7
22.5°	1202.7	1193.2	1186.9	1176.7	1167.9	1159.7	1151.5	1143.3	1135.1	1128.7	1123.1
25°	1176.1	1166.0	1159.1	1150.8	1142.7	1136.3	1126.2	1121.2	1113.0	1107.3	1101.6
27.5°	1138.2	1130.6	1124.3	1116.1	1109.2	1104.1	1096.5	1091.5	1084.5	1079.5	1075.1
30°	1082.6	1076.3	1070.6	1062.4	1057.4	1053.0	1046.0	1041.6	1036.5	1030.8	1029.6
32.5°	1008.1	1003.0	997.4	991.7	987.9	985.4	979.7	977.1	972.1	968.9	965.8
35°	895.7	891.2	888.1	885.6	884.3	884.9	883.7	886.2	887.4	886.8	887.4
37.5°	748.5	746.0	747.2	749.1	755.5	763.7	771.2	782.6	790.2	797.8	804.7
40°	584.3	586.2	591.2	602.6	619.0	637.3	654.4	675.9	697.3	712.5	726.4
42.5°	440.9	446.6	459.2	475.6	500.3	527.4	554.0	585.5	611.4	636.7	654.4
45°	331.6	339.2	355.6	378.4	405.5	437.1	470.6	505.9	536.9	562.8	582.4
47.5°	258.4	265.3	281.7	305.7	339.2	372.0	406.8	443.4	475.6	500.9	518.0
50°	204.0	212.9	227.4	252.7	286.1	320.9	356.9	392.9	423.2	444.7	459.8
52.5°	160.4	168.7	182.5	209.1	243.2	277.9	311.4	346.8	373.3	394.1	404.3
55°	124.4	132.0	146.5	168.7	200.9	235.0	268.4	298.8	323.4	338.6	348.0
57.5°	94.7	100.4	110.5	132.6	161.7	193.3	221.7	252.0	271.0	281.7	288.0
60°	72.0	76.4	87.2	104.2	130.7	157.9	181.9	204.7	219.8	228.7	235.0
62.5°	54.3	59.4	66.9	81.5	101.7	123.8	144.0	161.1	173.7	179.4	183.8
65°	37.3	41.1	46.7	58.1	75.2	90.9	106.8	119.4	127.6	133.9	136.4
67.5°	27.8	30.3	33.5	42.3	54.3	66.9	77.7	86.5	95.4	97.9	102.3
70°	20.9	22.7	25.9	32.2	39.2	48.0	56.9	61.9	68.2	72.6	73.9
72.5°	13.3	13.9	17.1	20.9	26.5	32.2	37.9	42.3	46.1	48.6	49.9
75°	7.6	11.4	11.4	15.2	19.0	21.5	25.3	28.4	30.3	32.2	32.2
77.5°	5.0	6.9	7.6	9.5	11.4	14.5	17.7	19.6	21.5	22.1	22.1
80°	4.4	5.0	5.0	6.9	8.2	10.7	12.6	13.3	14.5	15.2	16.4
82.5°	1.9	2.5	3.1	5.0	5.7	5.7	7.6	8.2	9.5	10.1	10.1
85°	0.6	1.3	1.3	1.9	3.1	3.8	4.4	5.0	5.7	5.7	6.3
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: P244538

CATALOG NUMBER: LSR8B20D010 EC8B20840 8LBSW0H

CANDELA DISTRIBUTION (continued):

	330°	335°	340°	345°	350°	355°	360°
0°	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6	1293.6
2.5°	1282.2	1282.9	1280.3	1279.7	1278.4	1279.1	1280.3
5°	1258.9	1259.5	1257.0	1254.4	1254.4	1253.8	1254.4
7.5°	1236.7	1237.4	1233.6	1232.3	1229.8	1230.5	1230.5
10°	1214.6	1214.6	1209.0	1208.3	1206.4	1205.8	1205.8
12.5°	1193.2	1191.3	1186.9	1184.3	1185.6	1181.8	1181.8
15°	1174.2	1171.1	1165.4	1163.5	1160.3	1159.1	1159.1
17.5°	1154.6	1152.1	1147.1	1143.3	1139.5	1138.9	1139.5
20°	1135.7	1133.2	1126.8	1124.3	1121.2	1121.2	1119.9
22.5°	1116.7	1114.2	1108.5	1106.6	1102.2	1102.2	1102.8
25°	1097.2	1095.3	1088.9	1087.7	1087.1	1084.5	1085.8
27.5°	1070.6	1069.4	1064.3	1062.4	1059.9	1059.3	1060.5
30°	1022.0	1020.1	1016.3	1014.4	1010.0	1010.6	1011.9
32.5°	961.4	958.8	953.8	951.9	948.1	946.8	947.5
35°	885.6	883.7	879.3	879.3	875.5	874.2	875.5
37.5°	808.5	810.4	808.5	810.4	808.5	807.9	808.5
40°	735.9	742.8	744.1	751.0	748.5	752.3	751.7
42.5°	666.4	677.7	682.2	687.9	686.6	689.1	691.0
45°	596.3	605.7	610.2	614.0	614.6	615.9	616.5
47.5°	529.9	537.5	538.2	542.6	541.9	541.9	543.8
50°	468.1	473.1	474.4	477.5	475.0	473.7	474.4
52.5°	410.6	415.6	414.3	415.6	412.5	411.2	411.8
55°	351.8	354.3	354.3	354.3	350.6	350.6	350.6
57.5°	291.8	292.5	291.2	291.8	291.2	287.4	286.8
60°	236.9	236.9	236.2	236.9	235.0	233.1	233.1
62.5°	185.1	186.3	188.9	186.3	185.1	186.3	184.4
65°	138.3	140.9	140.2	141.5	140.9	140.9	139.6
67.5°	104.2	104.9	105.5	106.1	106.1	106.1	106.1
70°	76.4	78.3	77.7	77.7	77.7	77.7	81.5
72.5°	51.2	53.7	53.1	54.3	54.3	55.6	54.3
75°	34.7	37.3	36.0	37.9	37.3	36.0	39.2
77.5°	23.4	24.6	25.3	25.9	25.3	24.6	25.3
80°	16.4	17.7	17.1	17.7	17.7	17.7	18.3
82.5°	10.1	12.0	11.4	12.0	11.4	12.0	12.0
85°	6.9	7.6	6.3	7.6	6.9	6.9	8.2
87.5°	4.4	3.8	3.8	4.4	3.8	4.4	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)