

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: P244221

Luminaire Tested: **LSR8B30D010 EC8B309727 8LBDW0LI**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P244221
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13956)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B30D010 EC8B309727 8LBDW0LI
Description: PORTFOLIO 8 INCH DOUBLE WALL WASH DISTRIBUTION 60 DEGREE CUTOFF
RECESSED DOWNLIGHT- CYLINDEC
97 CRI 2700 CCT WITH SPECULAR CLEAR TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2263.0 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Spacing Criteria (0/90/45): 1.16 / 1.33 / 1.2
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: Direct

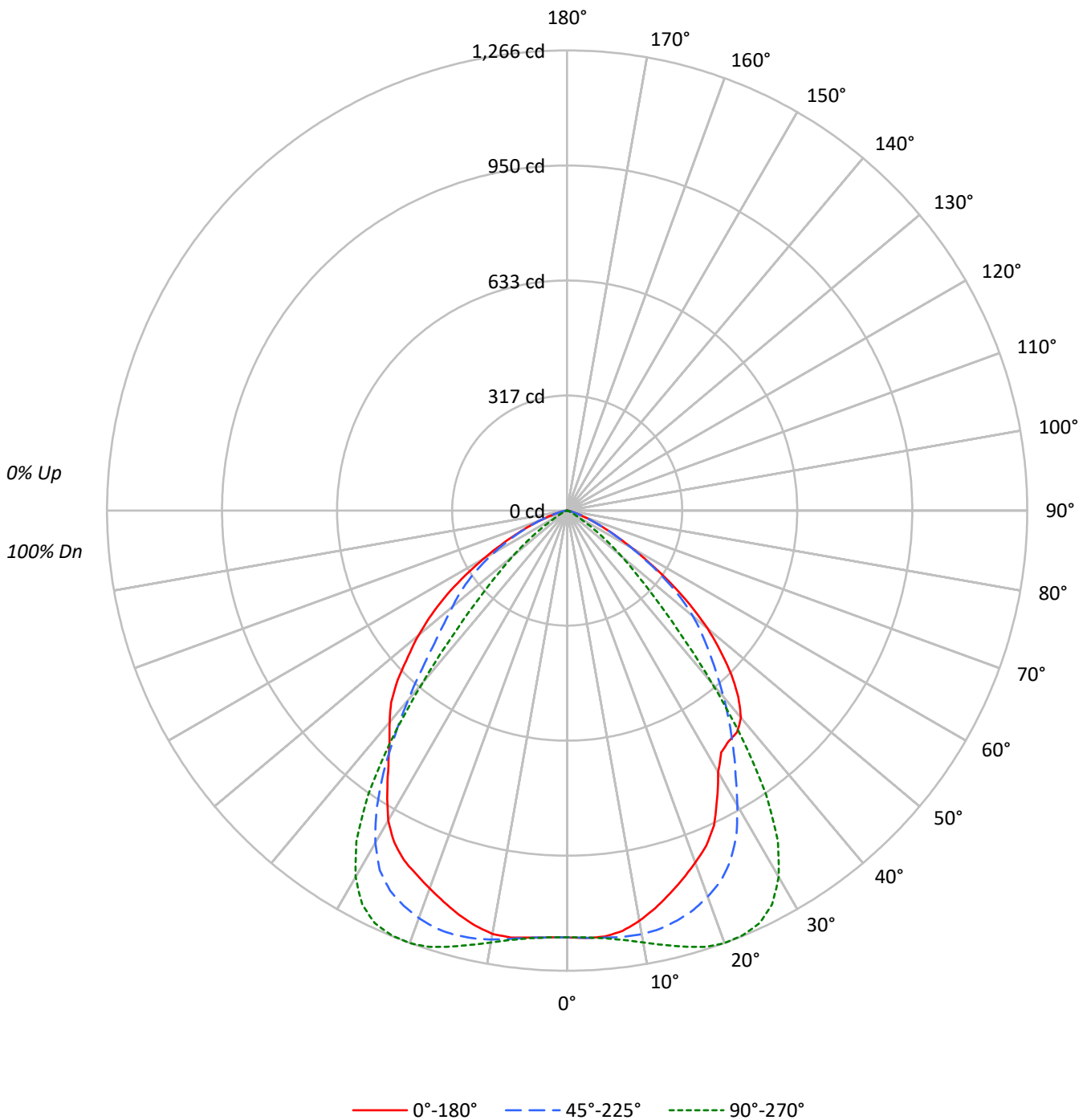
Input Watts (W): 27.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																		
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100
1	112	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	92	90
2	104	98	92	88	102	96	91	87	92	88	85	89	86	83	86	84	81	79
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62
5	84	73	65	60	82	72	65	59	70	63	59	68	62	58	66	61	58	56
6	78	66	59	53	76	66	58	53	64	57	53	62	57	52	61	56	52	50
7	73	61	53	48	71	60	53	48	59	52	48	57	52	47	56	51	47	45
8	68	56	49	44	67	56	48	43	54	48	43	53	47	43	52	47	43	41
9	64	52	45	40	63	51	44	40	50	44	39	49	44	39	48	43	39	38
10	60	48	41	36	59	48	41	36	47	41	36	46	40	36	45	40	36	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
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°	112.9	5.0
10°-20°	334.4	14.8
20°-30°	510.2	22.5
30°-40°	532.4	23.5
40°-50°	399.9	17.7
50°-60°	246.1	10.9
60°-70°	100.1	4.4
70°-80°	23.6	1.0
80°-90°	3.3	0.1
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°	957.6	42.3
0°-40°	1490.0	65.8
0°-60°	2136.0	94.4
0°-90°	2263.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2263.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1174	1174	1174	1174	1174	
5°	1176	1180	1181	1180	1180	111
15°	1091	1168	1242	1208	1151	307
25°	956	1063	1252	1153	1062	435
35°	774	796	954	882	857	489
45°	639	553	345	515	659	488
55°	345	328	90	328	404	310
65°	108	109	14	146	155	112
75°	19	19	2	33	34	23
85°	2	2	1	4	6	3
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°	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0
2.5°	1177.1	1175.2	1177.1	1177.1	1177.7	1176.5	1177.1	1177.7	1176.5	1176.5	1176.5
5°	1176.5	1175.2	1176.5	1175.8	1177.1	1177.1	1178.3	1178.3	1179.6	1179.6	1181.5
7.5°	1166.5	1164.0	1166.5	1168.4	1169.6	1172.1	1175.2	1177.7	1180.2	1182.7	1185.8
10°	1145.9	1145.9	1147.8	1151.5	1155.3	1159.6	1165.2	1171.5	1177.7	1183.3	1188.9
12.5°	1120.4	1118.5	1122.2	1127.2	1132.8	1139.7	1148.4	1157.8	1167.7	1179.0	1187.7
15°	1091.1	1089.2	1093.6	1098.6	1105.4	1115.4	1126.0	1138.5	1152.8	1167.7	1182.1
17.5°	1061.2	1060.6	1064.9	1071.8	1077.4	1088.0	1101.7	1116.6	1132.8	1152.8	1171.5
20°	1030.7	1030.0	1034.4	1040.0	1047.5	1057.4	1071.2	1088.6	1107.9	1130.4	1152.2
22.5°	998.9	999.5	1003.2	1009.5	1015.7	1026.3	1040.6	1058.1	1079.3	1103.6	1127.9
25°	955.9	952.8	957.7	964.0	974.6	983.3	997.0	1015.7	1037.5	1063.1	1091.7
27.5°	893.6	892.9	897.3	902.9	912.3	922.8	937.8	957.1	980.2	1008.2	1036.3
30°	831.2	832.5	834.4	840.0	846.2	856.8	871.8	888.0	909.8	936.6	966.5
32.5°	788.9	788.9	791.4	795.1	799.5	805.1	815.7	827.5	844.3	863.0	884.8
35°	774.5	772.1	774.5	775.2	775.8	777.0	778.9	782.7	788.2	796.4	804.5
37.5°	768.3	766.4	766.4	764.0	760.8	757.1	752.1	746.5	740.3	732.2	725.9
40°	744.0	742.8	741.5	739.0	732.2	724.7	716.6	703.5	689.2	669.2	649.3
42.5°	697.3	696.0	695.4	690.4	684.2	675.5	666.1	652.4	634.3	608.8	580.1
45°	639.3	636.8	635.0	630.6	626.2	618.8	610.0	597.6	579.5	553.3	519.1
47.5°	572.0	570.8	570.2	568.3	563.9	559.6	554.0	544.0	527.8	502.9	467.3
50°	504.1	501.6	502.9	502.2	500.4	497.3	493.5	486.7	474.2	451.8	419.4
52.5°	426.2	426.2	425.6	427.5	428.1	427.5	428.1	420.6	410.0	393.2	365.8
55°	345.2	345.2	347.1	349.6	352.1	352.7	352.1	349.0	341.5	327.8	303.5
57.5°	269.2	267.9	271.7	275.4	277.9	280.4	278.5	276.0	271.7	260.5	241.8
60°	205.0	205.0	207.5	210.0	212.5	215.0	214.4	213.7	210.0	202.5	187.6
62.5°	150.8	151.4	151.4	153.3	155.8	158.3	160.1	158.3	156.4	151.4	141.4
65°	107.8	107.2	107.8	109.7	111.5	114.0	115.3	114.7	112.8	109.0	101.6
67.5°	72.3	71.7	74.1	74.8	76.0	78.5	77.9	78.5	77.9	74.8	68.5
70°	47.4	46.1	47.4	46.7	48.6	49.2	50.5	51.1	50.5	48.6	46.7
72.5°	29.3	28.7	29.3	29.9	30.5	31.1	32.4	32.4	31.8	30.5	28.0
75°	18.7	16.8	17.4	16.2	17.4	17.4	18.7	19.3	18.7	18.7	17.4
77.5°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.8	12.5	11.2	10.6
80°	5.6	5.6	6.2	6.2	6.2	6.9	6.2	6.2	6.2	6.9	5.0
82.5°	4.4	3.7	3.7	3.7	4.4	3.7	3.7	3.7	3.7	3.7	3.7
85°	1.9	2.5	1.9	1.3	1.9	1.9	2.5	1.9	1.9	1.9	2.5
87.5°	0.6	0.6	0.0	0.0	0.0	0.6	0.0	0.6	0.6	1.3	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



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0
2.5°	1177.1	1175.8	1175.8	1175.2	1176.5	1175.2	1175.8	1175.2	1175.2	1176.5	1175.2
5°	1181.5	1182.1	1180.8	1180.2	1182.1	1182.1	1182.1	1180.8	1180.8	1181.5	1180.8
7.5°	1187.7	1188.9	1189.5	1190.2	1191.4	1192.0	1192.0	1191.4	1190.8	1192.7	1190.2
10°	1194.5	1196.4	1200.1	1202.0	1205.1	1205.1	1206.4	1206.4	1205.1	1206.4	1205.8
12.5°	1192.0	1203.3	1209.5	1213.9	1218.2	1221.9	1223.2	1223.8	1223.2	1225.7	1223.2
15°	1196.4	1205.8	1215.7	1223.2	1231.3	1235.7	1236.9	1241.9	1243.1	1243.8	1240.0
17.5°	1189.5	1206.4	1217.0	1228.2	1240.0	1248.1	1255.6	1258.7	1259.3	1260.6	1255.6
20°	1174.0	1192.7	1208.9	1225.1	1238.8	1251.2	1257.5	1266.2	1263.7	1268.7	1261.8
22.5°	1152.8	1174.0	1194.5	1215.7	1230.1	1245.0	1258.1	1264.3	1267.4	1267.4	1260.0
25°	1119.1	1144.1	1166.5	1188.3	1210.1	1228.2	1243.1	1252.5	1254.4	1253.7	1245.0
27.5°	1066.8	1093.6	1119.8	1144.7	1171.5	1192.7	1210.1	1221.3	1224.4	1224.4	1215.1
30°	994.5	1023.2	1048.7	1078.6	1106.1	1129.7	1154.0	1164.0	1169.6	1169.6	1159.0
32.5°	908.5	932.8	956.5	985.8	1015.7	1042.5	1065.5	1079.3	1086.1	1085.5	1076.1
35°	815.1	826.9	845.0	866.8	893.6	918.5	940.9	954.0	965.8	965.2	956.5
37.5°	721.6	718.5	720.3	728.4	745.3	762.7	780.2	792.6	802.6	807.0	805.1
40°	630.0	613.8	598.2	592.6	593.8	600.1	609.4	618.8	630.0	635.6	638.1
42.5°	547.7	520.3	492.9	472.3	460.5	456.8	461.1	464.2	471.1	479.2	487.3
45°	481.7	444.9	408.8	377.0	357.1	345.2	342.7	345.2	349.0	357.1	367.6
47.5°	427.5	384.5	344.0	308.4	279.2	263.6	259.2	258.0	261.7	269.2	283.5
50°	379.5	336.5	291.6	250.5	220.0	202.5	196.3	193.8	198.1	203.8	216.8
52.5°	327.1	284.8	238.7	198.8	167.0	148.9	142.1	138.3	140.8	148.3	161.4
55°	270.4	231.2	189.4	148.3	117.8	100.9	92.8	90.4	92.8	100.9	114.0
57.5°	213.7	180.7	145.8	107.2	79.8	62.9	54.8	52.3	59.2	62.3	76.0
60°	167.0	140.2	110.3	78.5	54.8	41.7	33.6	31.8	34.9	40.5	51.7
62.5°	125.3	108.4	84.7	56.1	40.5	26.8	22.4	20.6	22.4	26.8	35.5
65°	91.0	77.9	59.2	41.1	27.4	19.9	15.0	13.7	15.6	18.7	26.2
67.5°	62.3	52.3	41.1	28.7	18.7	12.5	10.6	10.6	11.2	13.7	19.3
70°	40.5	34.3	26.2	18.7	12.5	9.3	8.1	6.9	8.1	10.0	13.1
72.5°	25.6	21.8	16.8	13.1	9.3	6.9	5.6	5.0	6.2	7.5	10.0
75°	15.6	11.8	8.7	6.9	5.0	5.0	5.0	2.5	3.1	5.0	6.2
77.5°	9.3	8.1	6.9	5.6	4.4	2.5	2.5	2.5	3.1	3.7	5.6
80°	5.0	4.4	3.1	3.1	2.5	1.9	2.5	1.9	1.3	3.1	3.7
82.5°	3.1	2.5	2.5	2.5	3.1	1.3	1.9	1.3	1.9	2.5	1.9
85°	1.9	1.9	1.9	1.3	3.1	1.3	1.3	0.6	0.6	1.3	1.3
87.5°	0.0	0.6	0.6	0.0	0.6	0.0	0.6	0.6	0.6	0.6	0.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0	1174.0
2.5°	1175.8	1175.2	1175.8	1175.2	1175.2	1175.2	1175.8	1175.8	1175.2	1175.2	1176.5
5°	1180.8	1180.8	1180.8	1180.2	1179.6	1179.6	1180.8	1180.8	1179.0	1180.8	1180.8
7.5°	1191.4	1189.5	1191.4	1188.9	1187.7	1188.3	1188.9	1187.7	1186.4	1187.1	1187.1
10°	1205.1	1203.3	1203.3	1201.4	1199.5	1198.3	1197.0	1193.9	1190.8	1190.2	1187.7
12.5°	1221.3	1218.2	1216.4	1212.6	1209.5	1205.1	1201.4	1196.4	1190.2	1185.8	1181.5
15°	1237.5	1232.5	1228.2	1221.9	1215.1	1207.6	1199.5	1191.4	1181.5	1172.7	1165.2
17.5°	1250.6	1243.8	1235.7	1225.7	1215.7	1204.5	1192.7	1180.8	1166.5	1155.3	1146.6
20°	1255.0	1245.0	1234.4	1221.3	1208.2	1192.7	1177.7	1162.1	1145.9	1134.1	1124.1
22.5°	1249.4	1237.5	1224.4	1210.7	1193.3	1176.5	1159.0	1140.9	1126.6	1110.4	1101.1
25°	1233.8	1219.5	1205.1	1188.9	1172.1	1153.4	1134.7	1116.0	1098.6	1089.8	1078.0
27.5°	1202.0	1186.4	1170.9	1154.0	1134.7	1116.0	1096.7	1078.6	1063.7	1051.8	1045.0
30°	1145.9	1127.9	1109.8	1091.7	1074.9	1055.6	1037.5	1022.5	1007.6	998.2	991.4
32.5°	1059.9	1043.7	1025.7	1008.2	992.6	976.4	961.5	948.4	937.8	931.6	926.6
35°	944.0	927.8	914.1	901.7	888.6	881.7	872.4	864.9	860.5	858.0	857.4
37.5°	798.2	788.9	784.5	782.0	779.5	777.7	778.9	782.0	784.5	788.9	793.9
40°	642.4	650.5	653.0	661.8	669.9	680.5	692.3	706.0	717.2	731.5	741.5
42.5°	500.4	515.3	532.8	551.5	571.4	590.7	614.4	636.2	656.1	674.2	689.8
45°	384.5	407.5	433.7	460.5	487.3	515.3	544.0	570.8	594.5	613.8	630.0
47.5°	299.7	325.3	358.9	392.0	424.4	457.4	489.2	517.2	537.1	555.8	570.2
50°	237.4	266.7	303.5	341.5	377.0	411.9	445.5	471.7	491.7	506.6	517.2
52.5°	183.8	218.7	256.1	296.0	334.0	372.0	403.2	427.5	443.7	456.8	464.8
55°	137.1	171.4	211.2	252.4	291.0	327.8	357.1	378.2	392.6	400.0	404.4
57.5°	99.1	130.2	170.1	211.2	246.1	281.0	304.7	324.0	332.1	336.5	338.4
60°	72.3	100.9	136.5	172.0	205.0	233.0	253.6	266.7	272.9	275.4	274.8
62.5°	53.0	77.9	108.4	138.3	165.1	188.2	204.4	213.1	216.2	217.5	215.6
65°	40.5	59.8	86.0	109.0	129.6	146.4	158.3	163.9	165.7	165.1	163.9
67.5°	29.9	44.9	64.2	81.6	96.6	109.7	115.9	120.9	122.1	120.3	118.4
70°	21.2	33.0	46.7	58.6	69.8	77.3	84.1	84.7	84.7	84.1	82.9
72.5°	15.0	23.1	31.8	39.9	46.7	52.3	54.8	56.7	56.1	55.5	54.2
75°	10.0	14.3	23.1	24.9	31.1	33.0	35.5	35.5	36.1	34.3	34.3
77.5°	6.2	10.0	13.7	16.2	18.7	21.2	22.4	22.4	23.1	22.4	22.4
80°	3.7	6.2	7.5	11.2	11.2	13.1	13.7	14.3	13.1	15.0	13.1
82.5°	2.5	3.7	5.6	5.6	6.9	8.1	8.1	8.7	8.7	8.1	8.1
85°	1.9	2.5	3.1	3.7	3.7	4.4	3.7	3.7	4.4	5.0	4.4
87.5°	0.6	1.3	0.6	1.3	1.3	2.5	1.9	1.9	1.9	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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CATALOG NUMBER: LSR8B30D010 EC8B309727 8LBDW0LI

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1174.0	1174.0	1174.0	1174.0
2.5°	1175.2	1175.8	1175.2	1175.2
5°	1180.8	1180.2	1180.8	1179.6
7.5°	1185.2	1185.2	1184.6	1184.6
10°	1185.2	1182.7	1182.7	1182.7
12.5°	1175.8	1172.7	1170.9	1169.6
15°	1159.6	1154.0	1151.5	1150.9
17.5°	1138.5	1133.5	1130.4	1128.5
20°	1114.2	1109.2	1105.4	1106.1
22.5°	1093.0	1087.4	1084.9	1083.6
25°	1071.8	1064.9	1063.1	1061.8
27.5°	1037.5	1033.8	1031.9	1030.0
30°	985.2	983.3	980.2	984.5
32.5°	924.7	921.6	919.1	921.0
35°	858.0	856.2	858.0	856.8
37.5°	797.0	798.8	801.3	802.6
40°	749.0	755.8	758.3	759.6
42.5°	701.0	709.1	714.1	717.2
45°	641.8	649.9	655.5	659.3
47.5°	580.8	587.6	593.2	592.6
50°	525.3	529.0	531.5	534.0
52.5°	469.2	469.2	469.8	469.8
55°	405.7	404.4	403.8	404.4
57.5°	335.9	334.6	334.0	332.1
60°	272.3	268.6	266.1	266.1
62.5°	213.1	208.7	206.9	206.3
65°	160.1	159.5	155.8	155.2
67.5°	115.9	113.4	110.9	111.5
70°	81.6	77.9	77.9	76.6
72.5°	53.0	51.1	50.5	50.5
75°	33.0	33.0	31.8	34.3
77.5°	21.8	21.8	21.2	21.8
80°	13.1	13.1	13.1	12.5
82.5°	8.1	8.7	8.1	8.1
85°	4.4	5.0	3.7	5.6
87.5°	2.5	3.1	2.5	3.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)