

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P238383

Luminaire Tested: **LSR6B30D010BZ-EC6B30509030-6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P238383
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29203)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LSR6B30D010BZ-EC6B30509030-6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH CYLINDER, WITH HAZE TRIM
Light Source: (1) High Lumen 3500K 90 CRI LED
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2330.3 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.24 / 1.18
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

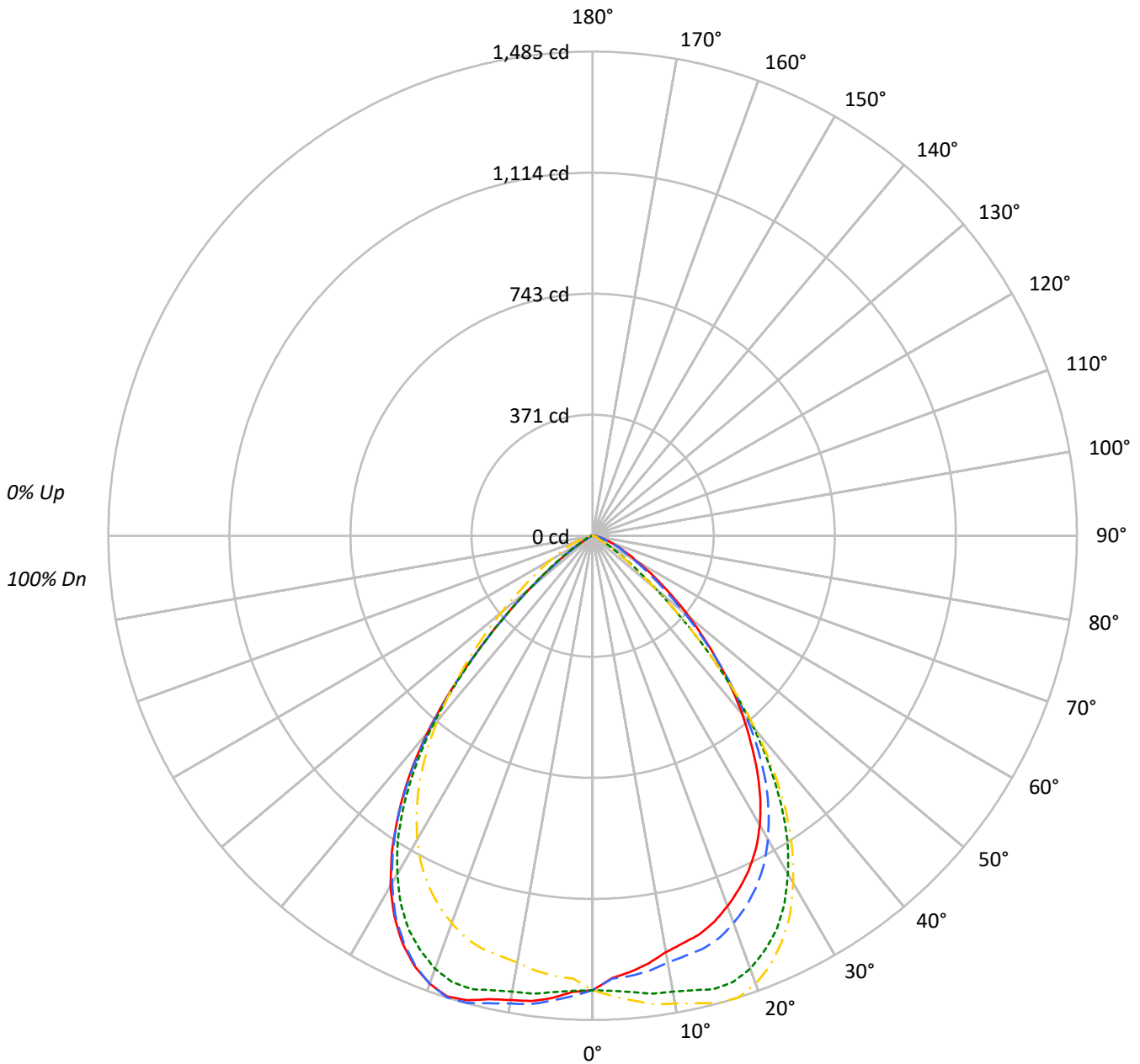
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100			
1	112	109	106	103	110	107	104	102	103	100	98	99	97	96	95	94	93	91			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	84	82			
3	98	91	84	80	96	89	84	79	86	82	78	84	80	76	81	78	75	73			
4	92	83	76	71	90	82	75	70	79	74	70	77	73	69	75	71	68	66			
5	86	76	69	64	84	75	68	63	73	67	63	71	66	62	70	65	62	60			
6	81	70	63	57	79	69	62	57	67	61	57	66	60	56	64	60	56	54			
7	76	64	57	52	74	64	57	52	62	56	52	61	56	51	60	55	51	49			
8	71	60	53	48	70	59	52	48	58	52	47	57	51	47	56	51	47	45			
9	67	55	48	44	66	55	48	44	54	48	43	53	47	43	52	47	43	42			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	49	43	40	38			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	76408	76408	76408	76408
5°	73844	77322	78313	77322
10°	72160	79023	80476	79023
15°	71828	81680	83706	81680
20°	70525	82444	85285	82444
25°	68496	80672	83418	80672
30°	64909	75809	78468	75809
35°	58859	67539	69393	67539
40°	51089	55039	56434	55039
45°	41888	37996	38244	37996
50°	32937	21313	20895	21313
55°	24343	10552	9472	10552
60°	17257	4627	3366	4627
65°	12855	2932	2101	2932
70°	9361	2324	1555	2324
75°	6884	1716	1038	1716
80°	4578	1547	537	1547
85°	3082	1069	1069	1069



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	5.7
10°-20°	395.2	17.0
20°-30°	589.7	25.3
30°-40°	605.9	26.0
40°-50°	392.4	16.8
50°-60°	145.9	6.3
60°-70°	47.9	2.1
70°-80°	16.9	0.7
80°-90°	3.1	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°	1118.3	48.0
0°-40°	1724.2	74.0
0°-60°	2262.5	97.1
0°-90°	2330.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	2330.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1394	1394	1394	1394	1394	
5°	1342	1405	1423	1405	1342	127
15°	1266	1439	1475	1439	1266	356
25°	1132	1334	1379	1334	1132	519
35°	880	1009	1037	1009	880	546
45°	540	490	493	490	540	418
55°	255	110	99	110	255	232
65°	99	23	16	23	99	101
75°	32	8	5	8	32	36
85°	5	2	2	2	5	6
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8
2.5°	1358.0	1377.5	1364.6	1372.8	1359.7	1359.7	1385.7	1371.0	1382.5	1371.0	1359.7
5°	1341.9	1366.1	1349.8	1358.0	1346.6	1348.4	1372.8	1361.3	1372.8	1364.6	1354.8
7.5°	1322.4	1346.6	1332.1	1340.3	1329.0	1332.1	1358.0	1346.6	1359.7	1351.6	1345.2
10°	1296.3	1322.4	1309.4	1317.5	1307.8	1309.4	1335.3	1327.2	1338.5	1333.7	1329.0
12.5°	1280.1	1304.4	1289.9	1298.1	1291.5	1294.9	1319.1	1312.7	1327.2	1322.4	1319.1
15°	1265.6	1288.2	1275.4	1283.6	1278.6	1280.1	1306.2	1299.7	1315.9	1312.7	1311.0
17.5°	1241.2	1265.6	1251.1	1260.6	1255.9	1257.5	1283.6	1278.6	1294.9	1294.9	1293.1
20°	1208.9	1233.1	1221.8	1228.3	1225.1	1228.3	1251.1	1247.7	1264.0	1264.0	1264.0
22.5°	1173.0	1197.6	1184.5	1190.9	1187.7	1192.6	1213.8	1213.8	1226.6	1228.3	1229.9
25°	1132.4	1156.8	1143.9	1152.0	1148.7	1152.0	1171.4	1173.0	1184.5	1184.5	1187.7
27.5°	1083.8	1108.2	1095.2	1101.7	1100.1	1101.7	1122.9	1126.0	1132.4	1134.2	1137.4
30°	1025.4	1048.2	1035.1	1041.6	1041.6	1041.6	1062.7	1064.4	1070.8	1072.5	1075.7
32.5°	957.4	976.8	967.1	973.5	971.9	975.2	989.7	996.2	1004.4	1002.8	1004.4
35°	879.5	900.5	890.8	895.6	897.3	902.1	911.8	920.0	921.7	923.1	926.5
37.5°	794.9	816.1	806.4	811.3	812.9	822.6	825.8	833.9	837.1	837.1	837.1
40°	713.9	723.7	715.6	720.5	722.0	730.1	733.4	739.8	743.2	741.6	739.8
42.5°	626.4	634.5	626.4	631.0	631.0	637.7	639.2	647.3	647.3	644.1	639.2
45°	540.3	548.5	540.3	543.6	543.6	550.0	550.0	550.0	553.3	548.5	540.3
47.5°	459.2	467.3	459.2	462.4	460.8	465.7	464.1	465.7	460.8	457.6	447.9
50°	386.2	389.4	386.2	384.5	386.2	389.4	387.8	387.8	381.3	376.4	365.1
52.5°	314.7	319.7	314.7	314.7	314.7	318.1	318.1	316.5	309.9	303.4	292.1
55°	254.7	258.0	256.4	254.7	254.7	258.0	254.7	254.7	248.3	243.4	232.1
57.5°	202.9	204.4	202.9	202.9	202.9	204.4	204.4	201.2	196.2	191.4	183.3
60°	157.4	159.0	159.0	157.4	157.4	160.7	160.7	159.0	154.0	150.8	142.7
62.5°	125.0	125.0	125.0	125.0	125.0	126.5	126.5	126.5	123.3	120.1	113.6
65°	99.1	100.7	99.1	99.1	100.7	102.2	100.7	102.2	99.1	97.3	92.4
67.5°	76.1	77.9	76.1	77.9	77.9	79.6	77.9	79.6	76.1	74.7	71.5
70°	58.4	58.4	58.4	58.4	58.4	60.0	58.4	60.0	58.4	56.7	53.5
72.5°	43.8	43.8	45.4	45.4	43.8	45.4	43.8	43.8	43.8	42.2	40.6
75°	32.5	32.5	34.1	32.5	32.5	32.5	32.5	32.5	30.7	30.7	29.2
77.5°	22.6	22.6	22.6	22.6	22.6	22.6	22.6	22.6	21.2	21.2	19.4
80°	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	14.5	13.1	13.1
82.5°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	8.1	8.1
85°	4.9	4.9	4.9	6.4	4.9	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	1.7	1.7	1.7	3.2	1.7	1.7	3.2	3.2	1.7	1.7	1.7
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8
2.5°	1372.8	1377.5	1377.5	1372.8	1384.1	1374.3	1393.8	1375.9	1380.7	1397.0	1395.4
5°	1367.8	1374.3	1375.9	1372.8	1387.3	1379.1	1398.7	1380.7	1388.9	1405.1	1405.1
7.5°	1361.3	1369.4	1372.8	1375.9	1388.9	1380.7	1403.5	1385.7	1397.0	1416.4	1415.0
10°	1346.6	1358.0	1364.6	1369.4	1382.5	1377.5	1401.9	1387.3	1397.0	1419.6	1418.1
12.5°	1338.5	1351.6	1361.3	1369.4	1384.1	1380.7	1405.1	1392.2	1405.1	1427.7	1427.7
15°	1332.1	1346.6	1358.0	1372.8	1387.3	1384.1	1410.0	1398.7	1411.6	1439.2	1437.6
17.5°	1315.9	1333.7	1345.2	1361.3	1375.9	1374.3	1401.9	1393.8	1408.3	1434.4	1436.0
20°	1288.2	1304.4	1317.5	1337.1	1353.3	1349.8	1379.1	1371.0	1385.7	1413.2	1415.0
22.5°	1252.5	1268.8	1281.8	1303.0	1317.5	1315.9	1345.2	1337.1	1351.6	1377.5	1379.1
25°	1210.3	1225.1	1238.0	1257.5	1273.7	1273.7	1299.7	1291.5	1307.8	1333.7	1333.7
27.5°	1158.5	1171.4	1182.8	1205.7	1218.4	1218.4	1242.8	1234.7	1251.1	1273.7	1272.0
30°	1095.2	1106.6	1116.3	1135.9	1147.2	1148.7	1169.8	1161.7	1178.0	1197.6	1197.6
32.5°	1019.0	1030.3	1036.9	1061.2	1069.3	1067.6	1083.8	1075.7	1092.0	1113.0	1108.2
35°	937.9	942.7	947.5	971.9	975.2	968.7	984.8	976.8	988.1	1009.2	1006.0
37.5°	845.3	847.0	847.0	868.0	869.6	864.8	874.6	864.8	873.0	892.4	890.8
40°	743.2	741.6	739.8	756.1	754.5	744.8	751.3	743.2	754.5	769.1	761.0
42.5°	639.2	634.5	627.9	636.0	629.6	621.5	624.7	611.8	619.7	631.0	621.5
45°	537.1	527.3	514.4	515.9	507.8	498.2	493.3	480.2	478.6	490.1	482.0
47.5°	441.3	421.8	410.4	404.1	391.0	382.9	373.2	358.7	352.0	358.7	350.5
50°	355.3	335.9	321.3	306.6	293.7	284.0	267.7	258.0	248.3	249.9	243.4
52.5°	280.8	267.7	243.4	232.1	219.1	207.7	193.0	181.7	170.4	170.4	163.9
55°	222.3	204.4	188.3	172.0	159.0	149.4	134.6	123.3	112.0	110.4	103.8
57.5°	172.0	159.0	141.3	125.0	116.9	107.0	92.4	79.6	73.0	68.0	63.4
60°	133.1	120.1	105.4	92.4	82.8	76.1	61.6	51.9	45.4	42.2	37.3
62.5°	107.0	95.7	82.8	69.8	63.4	56.7	45.4	37.3	30.7	27.6	24.4
65°	86.0	76.1	66.6	56.7	51.9	45.4	37.3	30.7	26.0	22.6	19.4
67.5°	66.6	60.0	51.9	45.4	40.6	35.7	29.2	24.4	21.2	17.8	16.2
70°	50.3	45.4	40.6	34.1	30.7	27.6	22.6	17.8	16.2	14.5	13.1
72.5°	39.0	34.1	29.2	26.0	22.6	21.2	17.8	14.5	13.1	11.3	9.7
75°	26.0	24.4	21.2	17.8	16.2	14.5	13.1	11.3	9.7	8.1	8.1
77.5°	17.8	16.2	14.5	13.1	11.3	11.3	9.7	8.1	6.4	6.4	4.9
80°	11.3	9.7	9.7	8.1	8.1	8.1	6.4	4.9	4.9	4.9	3.2
82.5°	8.1	6.4	6.4	4.9	4.9	4.9	4.9	3.2	3.2	3.2	1.7
85°	4.9	3.2	3.2	3.2	3.2	3.2	3.2	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8
2.5°	1382.5	1397.0	1397.0	1410.0	1411.6	1408.3	1393.8	1393.8	1413.2	1424.5	1405.1
5°	1395.4	1410.0	1410.0	1423.1	1429.5	1424.5	1410.0	1411.6	1431.2	1444.1	1424.5
7.5°	1406.8	1421.3	1424.5	1439.2	1444.1	1439.2	1424.5	1427.7	1448.9	1460.4	1440.8
10°	1411.6	1426.3	1427.7	1444.1	1450.6	1444.1	1432.7	1434.4	1457.0	1465.1	1447.3
12.5°	1423.1	1437.6	1437.6	1455.4	1461.9	1457.0	1442.5	1445.7	1468.5	1476.6	1458.6
15°	1434.4	1448.9	1448.9	1468.5	1476.6	1470.1	1458.6	1460.4	1483.0	1491.1	1476.6
17.5°	1434.4	1447.3	1447.3	1468.5	1476.6	1471.7	1458.6	1460.4	1484.7	1491.1	1476.6
20°	1413.2	1427.7	1424.5	1445.7	1453.8	1448.9	1437.6	1437.6	1461.9	1468.5	1453.8
22.5°	1379.1	1392.2	1388.9	1408.3	1418.1	1411.6	1401.9	1400.2	1424.5	1431.2	1416.4
25°	1332.1	1345.2	1341.9	1361.3	1371.0	1362.9	1351.6	1353.3	1372.8	1382.5	1369.4
27.5°	1276.9	1285.0	1280.1	1299.7	1309.4	1301.3	1289.9	1291.5	1311.0	1317.5	1307.8
30°	1202.2	1208.9	1203.9	1220.2	1226.6	1221.8	1212.1	1212.1	1229.9	1238.0	1228.3
32.5°	1113.0	1117.9	1113.0	1126.0	1139.1	1129.2	1119.5	1119.5	1139.1	1145.5	1134.2
35°	1009.2	1014.1	1010.9	1023.8	1033.5	1020.6	1012.5	1009.2	1035.1	1031.9	1025.4
37.5°	894.0	897.3	887.5	910.2	915.0	900.5	894.0	890.8	913.6	911.8	905.5
40°	764.2	767.4	761.0	777.2	778.7	767.4	762.6	757.8	780.4	778.7	774.1
42.5°	626.4	627.9	619.7	632.8	636.0	624.7	623.1	616.5	637.7	634.5	632.8
45°	483.5	483.5	477.0	486.9	490.1	480.2	477.0	475.4	490.1	490.1	486.9
47.5°	350.5	345.6	337.5	352.0	353.7	347.2	345.6	340.7	355.3	355.3	352.0
50°	240.2	238.6	236.8	240.2	241.8	233.7	238.6	233.7	241.8	241.8	241.8
52.5°	160.7	159.0	155.8	159.0	159.0	154.0	154.0	152.6	159.0	159.0	155.8
55°	100.7	99.1	97.3	99.1	99.1	94.1	97.3	94.1	97.3	97.3	95.7
57.5°	61.6	58.4	58.4	56.7	56.7	53.5	55.3	55.3	55.3	55.3	55.3
60°	35.7	34.1	32.5	32.5	32.5	30.7	30.7	30.7	30.7	30.7	30.7
62.5°	22.6	22.6	21.2	21.2	21.2	21.2	21.2	19.4	21.2	21.2	21.2
65°	19.4	17.8	17.8	17.8	17.8	16.2	16.2	16.2	16.2	16.2	16.2
67.5°	16.2	14.5	14.5	14.5	14.5	13.1	13.1	13.1	13.1	13.1	13.1
70°	13.1	11.3	11.3	11.3	11.3	11.3	9.7	11.3	11.3	9.7	9.7
72.5°	9.7	9.7	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	6.4	6.4	6.4	6.4	6.4	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	4.9	4.9	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
80°	3.2	3.2	3.2	3.2	3.2	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	1.7	1.7	1.7	1.7	1.7	0.0	1.7	0.0	1.7	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: P238383

CATALOG NUMBER: LSR6B30D010BZ-EC6B30509030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8
2.5°	1427.7	1411.6	1403.5	1419.6	1426.3	1418.1	1411.6	1400.2	1411.6	1418.1	1426.3
5°	1447.3	1432.7	1426.3	1437.6	1447.3	1439.2	1434.4	1423.1	1434.4	1439.2	1447.3
7.5°	1465.1	1450.6	1442.5	1453.8	1465.1	1453.8	1448.9	1439.2	1448.9	1453.8	1465.1
10°	1471.7	1455.4	1448.9	1458.6	1470.1	1458.6	1452.2	1445.7	1452.2	1458.6	1470.1
12.5°	1483.0	1466.7	1458.6	1466.7	1478.0	1466.7	1460.4	1455.4	1460.4	1466.7	1478.0
15°	1499.2	1484.7	1474.9	1483.0	1497.6	1484.7	1476.6	1474.9	1476.6	1484.7	1497.6
17.5°	1499.2	1487.9	1478.0	1484.7	1499.2	1489.4	1478.0	1481.4	1478.0	1489.4	1499.2
20°	1478.0	1466.7	1458.6	1458.6	1479.8	1466.7	1457.0	1461.9	1457.0	1466.7	1479.8
22.5°	1440.8	1431.2	1423.1	1421.3	1442.5	1431.2	1418.1	1427.7	1418.1	1431.2	1442.5
25°	1392.2	1382.5	1375.9	1372.8	1393.8	1380.7	1369.4	1379.1	1369.4	1380.7	1393.8
27.5°	1329.0	1320.8	1314.3	1309.4	1329.0	1317.5	1306.2	1315.9	1306.2	1317.5	1329.0
30°	1247.7	1242.8	1236.4	1229.9	1249.3	1238.0	1226.6	1239.6	1226.6	1238.0	1249.3
32.5°	1153.6	1150.4	1142.3	1135.9	1155.3	1142.3	1134.2	1143.9	1134.2	1142.3	1155.3
35°	1045.0	1040.0	1035.1	1023.8	1045.0	1033.5	1033.5	1036.9	1033.5	1033.5	1045.0
37.5°	923.1	920.0	913.6	903.7	921.7	913.6	910.2	920.0	910.2	913.6	921.7
40°	786.8	785.4	780.4	769.1	788.6	780.4	775.5	788.6	775.5	780.4	788.6
42.5°	644.1	640.9	636.0	634.5	644.1	637.7	642.6	642.6	642.6	637.7	644.1
45°	496.5	493.3	490.1	483.5	495.0	491.5	490.1	493.3	490.1	491.5	495.0
47.5°	360.1	356.9	353.7	348.8	360.1	355.3	355.3	358.7	355.3	355.3	360.1
50°	241.8	243.4	241.8	238.6	241.8	240.2	241.8	245.0	241.8	240.2	241.8
52.5°	160.7	160.7	157.4	155.8	159.0	157.4	162.3	159.0	162.3	157.4	159.0
55°	97.3	99.1	97.3	95.7	97.3	95.7	100.7	99.1	100.7	95.7	97.3
57.5°	55.3	55.3	56.7	55.3	58.4	56.7	56.7	56.7	56.7	56.7	58.4
60°	30.7	30.7	30.7	30.7	30.7	30.7	32.5	30.7	32.5	30.7	30.7
62.5°	21.2	21.2	21.2	19.4	21.2	19.4	21.2	21.2	21.2	19.4	21.2
65°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
67.5°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1
70°	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7	9.7
72.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.7	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: P238383

CATALOG NUMBER: LSR6B30D010BZ-EC6B30509030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8
2.5°	1419.6	1403.5	1411.6	1427.7	1405.1	1424.5	1413.2	1393.8	1393.8	1408.3	1411.6
5°	1437.6	1426.3	1432.7	1447.3	1424.5	1444.1	1431.2	1411.6	1410.0	1424.5	1429.5
7.5°	1453.8	1442.5	1450.6	1465.1	1440.8	1460.4	1448.9	1427.7	1424.5	1439.2	1444.1
10°	1458.6	1448.9	1455.4	1471.7	1447.3	1465.1	1457.0	1434.4	1432.7	1444.1	1450.6
12.5°	1466.7	1458.6	1466.7	1483.0	1458.6	1476.6	1468.5	1445.7	1442.5	1457.0	1461.9
15°	1483.0	1474.9	1484.7	1499.2	1476.6	1491.1	1483.0	1460.4	1458.6	1470.1	1476.6
17.5°	1484.7	1478.0	1487.9	1499.2	1476.6	1491.1	1484.7	1460.4	1458.6	1471.7	1476.6
20°	1458.6	1458.6	1466.7	1478.0	1453.8	1468.5	1461.9	1437.6	1437.6	1448.9	1453.8
22.5°	1421.3	1423.1	1431.2	1440.8	1416.4	1431.2	1424.5	1400.2	1401.9	1411.6	1418.1
25°	1372.8	1375.9	1382.5	1392.2	1369.4	1382.5	1372.8	1353.3	1351.6	1362.9	1371.0
27.5°	1309.4	1314.3	1320.8	1329.0	1307.8	1317.5	1311.0	1291.5	1289.9	1301.3	1309.4
30°	1229.9	1236.4	1242.8	1247.7	1228.3	1238.0	1229.9	1212.1	1212.1	1221.8	1226.6
32.5°	1135.9	1142.3	1150.4	1153.6	1134.2	1145.5	1139.1	1119.5	1119.5	1129.2	1139.1
35°	1023.8	1035.1	1040.0	1045.0	1025.4	1031.9	1035.1	1009.2	1012.5	1020.6	1033.5
37.5°	903.7	913.6	920.0	923.1	905.5	911.8	913.6	890.8	894.0	900.5	915.0
40°	769.1	780.4	785.4	786.8	774.1	778.7	780.4	757.8	762.6	767.4	778.7
42.5°	634.5	636.0	640.9	644.1	632.8	634.5	637.7	616.5	623.1	624.7	636.0
45°	483.5	490.1	493.3	496.5	486.9	490.1	490.1	475.4	477.0	480.2	490.1
47.5°	348.8	353.7	356.9	360.1	352.0	355.3	355.3	340.7	345.6	347.2	353.7
50°	238.6	241.8	243.4	241.8	241.8	241.8	241.8	233.7	238.6	233.7	241.8
52.5°	155.8	157.4	160.7	160.7	155.8	159.0	159.0	152.6	154.0	154.0	159.0
55°	95.7	97.3	99.1	97.3	95.7	97.3	97.3	94.1	97.3	94.1	99.1
57.5°	55.3	56.7	55.3	55.3	55.3	55.3	55.3	55.3	55.3	53.5	56.7
60°	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	30.7	32.5
62.5°	19.4	21.2	21.2	21.2	21.2	21.2	21.2	19.4	21.2	21.2	21.2
65°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	17.8
67.5°	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	14.5
70°	9.7	9.7	9.7	9.7	9.7	9.7	11.3	11.3	9.7	11.3	11.3
72.5°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1
75°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	6.4
77.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.2
82.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	0.0	1.7	0.0	1.7
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: P238383

CATALOG NUMBER: LSR6B30D010BZ-EC6B30509030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8
2.5°	1410.0	1397.0	1397.0	1382.5	1395.4	1397.0	1380.7	1375.9	1393.8	1374.3	1384.1
5°	1423.1	1410.0	1410.0	1395.4	1405.1	1405.1	1388.9	1380.7	1398.7	1379.1	1387.3
7.5°	1439.2	1424.5	1421.3	1406.8	1415.0	1416.4	1397.0	1385.7	1403.5	1380.7	1388.9
10°	1444.1	1427.7	1426.3	1411.6	1418.1	1419.6	1397.0	1387.3	1401.9	1377.5	1382.5
12.5°	1455.4	1437.6	1437.6	1423.1	1427.7	1427.7	1405.1	1392.2	1405.1	1380.7	1384.1
15°	1468.5	1448.9	1448.9	1434.4	1437.6	1439.2	1411.6	1398.7	1410.0	1384.1	1387.3
17.5°	1468.5	1447.3	1447.3	1434.4	1436.0	1434.4	1408.3	1393.8	1401.9	1374.3	1375.9
20°	1445.7	1424.5	1427.7	1413.2	1415.0	1413.2	1385.7	1371.0	1379.1	1349.8	1353.3
22.5°	1408.3	1388.9	1392.2	1379.1	1379.1	1377.5	1351.6	1337.1	1345.2	1315.9	1317.5
25°	1361.3	1341.9	1345.2	1332.1	1333.7	1333.7	1307.8	1291.5	1299.7	1273.7	1273.7
27.5°	1299.7	1280.1	1285.0	1276.9	1272.0	1273.7	1251.1	1234.7	1242.8	1218.4	1218.4
30°	1220.2	1203.9	1208.9	1202.2	1197.6	1197.6	1178.0	1161.7	1169.8	1148.7	1147.2
32.5°	1126.0	1113.0	1117.9	1113.0	1108.2	1113.0	1092.0	1075.7	1083.8	1067.6	1069.3
35°	1023.8	1010.9	1014.1	1009.2	1006.0	1009.2	988.1	976.8	984.8	968.7	975.2
37.5°	910.2	887.5	897.3	894.0	890.8	892.4	873.0	864.8	874.6	864.8	869.6
40°	777.2	761.0	767.4	764.2	761.0	769.1	754.5	743.2	751.3	744.8	754.5
42.5°	632.8	619.7	627.9	626.4	621.5	631.0	619.7	611.8	624.7	621.5	629.6
45°	486.9	477.0	483.5	483.5	482.0	490.1	478.6	480.2	493.3	498.2	507.8
47.5°	352.0	337.5	345.6	350.5	350.5	358.7	352.0	358.7	373.2	382.9	391.0
50°	240.2	236.8	238.6	240.2	243.4	249.9	248.3	258.0	267.7	284.0	293.7
52.5°	159.0	155.8	159.0	160.7	163.9	170.4	170.4	181.7	193.0	207.7	219.1
55°	99.1	97.3	99.1	100.7	103.8	110.4	112.0	123.3	134.6	149.4	159.0
57.5°	56.7	58.4	58.4	61.6	63.4	68.0	73.0	79.6	92.4	107.0	116.9
60°	32.5	32.5	34.1	35.7	37.3	42.2	45.4	51.9	61.6	76.1	82.8
62.5°	21.2	21.2	22.6	22.6	24.4	27.6	30.7	37.3	45.4	56.7	63.4
65°	17.8	17.8	17.8	19.4	19.4	22.6	26.0	30.7	37.3	45.4	51.9
67.5°	14.5	14.5	14.5	16.2	16.2	17.8	21.2	24.4	29.2	35.7	40.6
70°	11.3	11.3	11.3	13.1	13.1	14.5	16.2	17.8	22.6	27.6	30.7
72.5°	8.1	8.1	9.7	9.7	9.7	11.3	13.1	14.5	17.8	21.2	22.6
75°	6.4	6.4	6.4	6.4	8.1	8.1	9.7	11.3	13.1	14.5	16.2
77.5°	3.2	3.2	4.9	4.9	4.9	6.4	6.4	8.1	9.7	11.3	11.3
80°	3.2	3.2	3.2	3.2	3.2	4.9	4.9	4.9	6.4	8.1	8.1
82.5°	1.7	1.7	1.7	1.7	1.7	3.2	3.2	3.2	4.9	4.9	4.9
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.7	1.7	1.7	1.7	1.7
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: P238383

CATALOG NUMBER: LSR6B30D010BZ-EC6B30509030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8	1393.8
2.5°	1372.8	1377.5	1377.5	1372.8	1359.7	1371.0	1382.5	1371.0	1385.7	1359.7	1359.7
5°	1372.8	1375.9	1374.3	1367.8	1354.8	1364.6	1372.8	1361.3	1372.8	1348.4	1346.6
7.5°	1375.9	1372.8	1369.4	1361.3	1345.2	1351.6	1359.7	1346.6	1358.0	1332.1	1329.0
10°	1369.4	1364.6	1358.0	1346.6	1329.0	1333.7	1338.5	1327.2	1335.3	1309.4	1307.8
12.5°	1369.4	1361.3	1351.6	1338.5	1319.1	1322.4	1327.2	1312.7	1319.1	1294.9	1291.5
15°	1372.8	1358.0	1346.6	1332.1	1311.0	1312.7	1315.9	1299.7	1306.2	1280.1	1278.6
17.5°	1361.3	1345.2	1333.7	1315.9	1293.1	1294.9	1294.9	1278.6	1283.6	1257.5	1255.9
20°	1337.1	1317.5	1304.4	1288.2	1264.0	1264.0	1264.0	1247.7	1251.1	1228.3	1225.1
22.5°	1303.0	1281.8	1268.8	1252.5	1229.9	1228.3	1226.6	1213.8	1213.8	1192.6	1187.7
25°	1257.5	1238.0	1225.1	1210.3	1187.7	1184.5	1184.5	1173.0	1171.4	1152.0	1148.7
27.5°	1205.7	1182.8	1171.4	1158.5	1137.4	1134.2	1132.4	1126.0	1122.9	1101.7	1100.1
30°	1135.9	1116.3	1106.6	1095.2	1075.7	1072.5	1070.8	1064.4	1062.7	1041.6	1041.6
32.5°	1061.2	1036.9	1030.3	1019.0	1004.4	1002.8	1004.4	996.2	989.7	975.2	971.9
35°	971.9	947.5	942.7	937.9	926.5	923.1	921.7	920.0	911.8	902.1	897.3
37.5°	868.0	847.0	847.0	845.3	837.1	837.1	837.1	833.9	825.8	822.6	812.9
40°	756.1	739.8	741.6	743.2	739.8	741.6	743.2	739.8	733.4	730.1	722.0
42.5°	636.0	627.9	634.5	639.2	639.2	644.1	647.3	647.3	639.2	637.7	631.0
45°	515.9	514.4	527.3	537.1	540.3	548.5	553.3	550.0	550.0	550.0	543.6
47.5°	404.1	410.4	421.8	441.3	447.9	457.6	460.8	465.7	464.1	465.7	460.8
50°	306.6	321.3	335.9	355.3	365.1	376.4	381.3	387.8	387.8	389.4	386.2
52.5°	232.1	243.4	267.7	280.8	292.1	303.4	309.9	316.5	318.1	318.1	314.7
55°	172.0	188.3	204.4	222.3	232.1	243.4	248.3	254.7	254.7	258.0	254.7
57.5°	125.0	141.3	159.0	172.0	183.3	191.4	196.2	201.2	204.4	204.4	202.9
60°	92.4	105.4	120.1	133.1	142.7	150.8	154.0	159.0	160.7	160.7	157.4
62.5°	69.8	82.8	95.7	107.0	113.6	120.1	123.3	126.5	126.5	126.5	125.0
65°	56.7	66.6	76.1	86.0	92.4	97.3	99.1	102.2	100.7	102.2	100.7
67.5°	45.4	51.9	60.0	66.6	71.5	74.7	76.1	79.6	77.9	79.6	77.9
70°	34.1	40.6	45.4	50.3	53.5	56.7	58.4	60.0	58.4	60.0	58.4
72.5°	26.0	29.2	34.1	39.0	40.6	42.2	43.8	43.8	43.8	45.4	43.8
75°	17.8	21.2	24.4	26.0	29.2	30.7	30.7	32.5	32.5	32.5	32.5
77.5°	13.1	14.5	16.2	17.8	19.4	21.2	21.2	22.6	22.6	22.6	22.6
80°	8.1	9.7	9.7	11.3	13.1	13.1	14.5	14.5	14.5	14.5	14.5
82.5°	4.9	6.4	6.4	8.1	8.1	8.1	9.7	9.7	9.7	9.7	9.7
85°	3.2	3.2	3.2	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	3.2	3.2	1.7	1.7
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: P238383

CATALOG NUMBER: LSR6B30D010BZ-EC6B30509030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	1393.8	1393.8	1393.8	1393.8
2.5°	1372.8	1364.6	1377.5	1358.0
5°	1358.0	1349.8	1366.1	1341.9
7.5°	1340.3	1332.1	1346.6	1322.4
10°	1317.5	1309.4	1322.4	1296.3
12.5°	1298.1	1289.9	1304.4	1280.1
15°	1283.6	1275.4	1288.2	1265.6
17.5°	1260.6	1251.1	1265.6	1241.2
20°	1228.3	1221.8	1233.1	1208.9
22.5°	1190.9	1184.5	1197.6	1173.0
25°	1152.0	1143.9	1156.8	1132.4
27.5°	1101.7	1095.2	1108.2	1083.8
30°	1041.6	1035.1	1048.2	1025.4
32.5°	973.5	967.1	976.8	957.4
35°	895.6	890.8	900.5	879.5
37.5°	811.3	806.4	816.1	794.9
40°	720.5	715.6	723.7	713.9
42.5°	631.0	626.4	634.5	626.4
45°	543.6	540.3	548.5	540.3
47.5°	462.4	459.2	467.3	459.2
50°	384.5	386.2	389.4	386.2
52.5°	314.7	314.7	319.7	314.7
55°	254.7	256.4	258.0	254.7
57.5°	202.9	202.9	204.4	202.9
60°	157.4	159.0	159.0	157.4
62.5°	125.0	125.0	125.0	125.0
65°	99.1	99.1	100.7	99.1
67.5°	77.9	76.1	77.9	76.1
70°	58.4	58.4	58.4	58.4
72.5°	45.4	45.4	43.8	43.8
75°	32.5	34.1	32.5	32.5
77.5°	22.6	22.6	22.6	22.6
80°	14.5	14.5	14.5	14.5
82.5°	9.7	9.7	9.7	9.7
85°	6.4	4.9	4.9	4.9
87.5°	3.2	1.7	1.7	1.7
90°	0.0	0.0	0.0	0.0



Report Generated By E9808895 / USPTCWHP6082093





— 0°-180° - - 45°-225° - - - - 90°-270° - · - · 135°-315°





















(END OF REPORT)