

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: P237962

Luminaire Tested: **LSR6B20D010BZ-EC6B10209030-6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P237962
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: LSR6B20D010BZ-EC6B10209030-6LBSW1H
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: 1606.7 lumens
Efficiency: N/A
Efficacy: 77.2 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

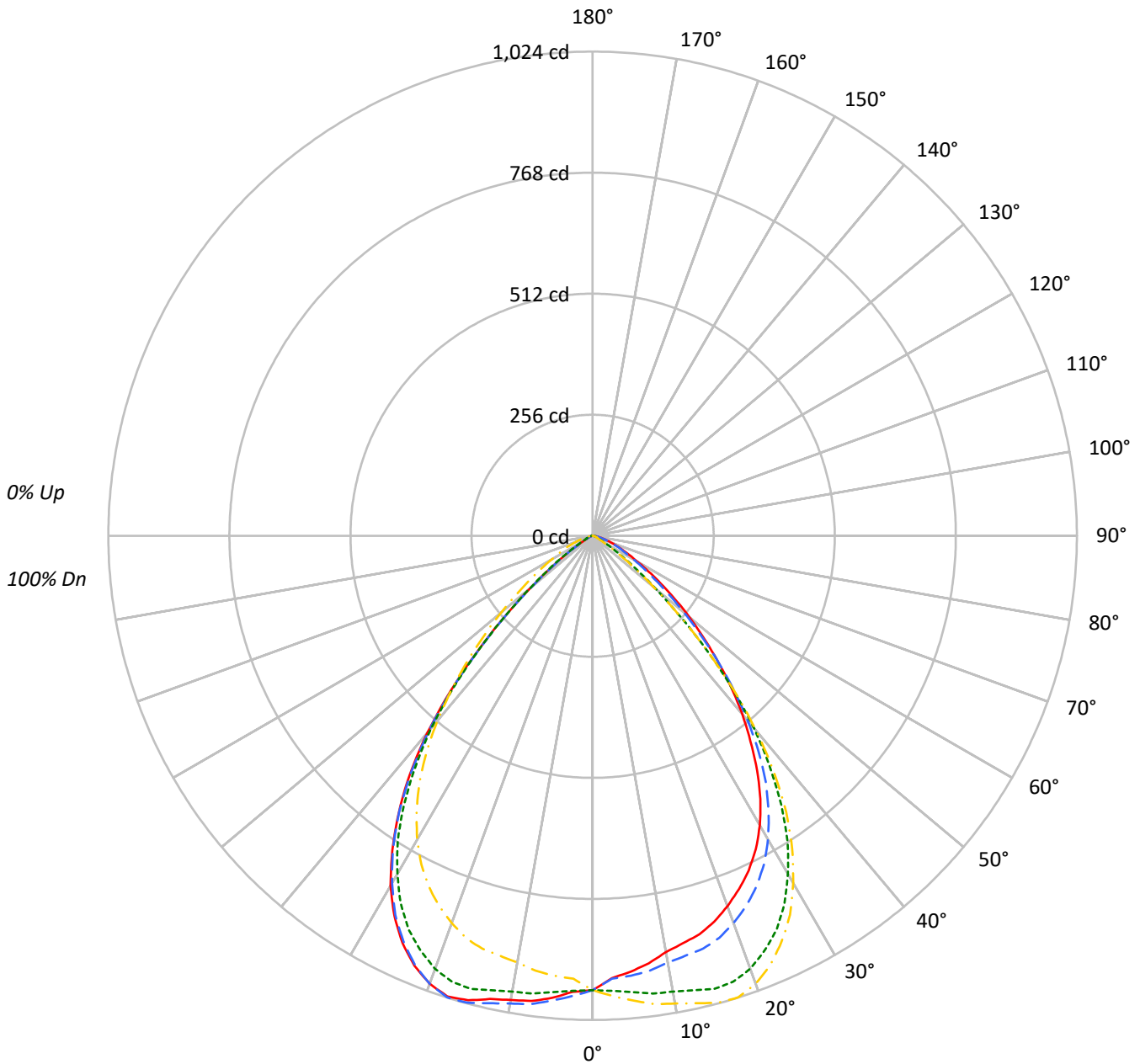
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

Luminous Intensity Polar Plot





TEST NUMBER: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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°	52682	52682	52682	52682
5°	50913	53313	53995	53313
10°	49754	54486	55488	54486
15°	49524	56317	57713	56317
20°	48625	56845	58805	56845
25°	47229	55624	57517	55624
30°	44754	52268	54103	52268
35°	40582	46565	47843	46565
40°	35223	37950	38909	37950
45°	28879	26197	26367	26197
50°	22711	14695	14405	14695
55°	16783	7273	6528	7273
60°	11896	3191	2324	3191
65°	8860	2024	1453	2024
70°	6459	1603	1074	1603
75°	4745	1186	720	1186
80°	3157	1073	379	1073
85°	2139	755	755	755



TEST NUMBER: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.0	5.7
10°-20°	272.5	17.0
20°-30°	406.6	25.3
30°-40°	417.8	26.0
40°-50°	270.5	16.8
50°-60°	100.6	6.3
60°-70°	33.0	2.1
70°-80°	11.6	0.7
80°-90°	2.1	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°	771.1	48.0
0°-40°	1188.8	74.0
0°-60°	1560.0	97.1
0°-90°	1606.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1606.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	961	961	961	961	961	
5°	925	969	981	969	925	87
15°	873	992	1017	992	873	245
25°	781	920	951	920	781	358
35°	606	696	715	696	606	376
45°	372	338	340	338	372	288
55°	176	76	68	76	176	160
65°	68	16	11	16	68	69
75°	22	6	3	6	22	25
85°	3	1	1	1	3	4
90°	0	0	0	0	0	



TEST NUMBER: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	936.3	949.8	940.9	946.5	937.5	937.5	955.4	945.3	953.2	945.3	937.5
5°	925.2	941.9	930.7	936.3	928.5	929.7	946.5	938.6	946.5	940.9	934.1
7.5°	911.8	928.5	918.5	924.1	916.3	918.5	936.3	928.5	937.5	931.9	927.5
10°	893.8	911.8	902.8	908.4	901.7	902.8	920.7	915.1	922.9	919.6	916.3
12.5°	882.6	899.4	889.4	895.0	890.5	892.8	909.5	905.1	915.1	911.8	909.5
15°	872.6	888.2	879.4	885.0	881.6	882.6	900.6	896.1	907.3	905.1	903.9
17.5°	855.8	872.6	862.6	869.2	865.9	867.0	885.0	881.6	892.8	892.8	891.6
20°	833.5	850.2	842.4	846.9	844.7	846.9	862.6	860.3	871.5	871.5	871.5
22.5°	808.8	825.7	816.7	821.1	818.9	822.3	836.9	836.9	845.7	846.9	848.0
25°	780.8	797.6	788.7	794.3	792.0	794.3	807.7	808.8	816.7	816.7	818.9
27.5°	747.3	764.1	755.1	759.6	758.5	759.6	774.2	776.4	780.8	782.0	784.2
30°	707.0	722.7	713.7	718.2	718.2	718.2	732.7	733.9	738.3	739.5	741.7
32.5°	660.1	673.5	666.8	671.2	670.1	672.4	682.4	686.9	692.5	691.4	692.5
35°	606.4	620.9	614.2	617.5	618.7	622.0	628.7	634.3	635.5	636.5	638.8
37.5°	548.1	562.7	556.0	559.4	560.5	567.2	569.4	575.0	577.2	577.2	577.2
40°	492.2	499.0	493.4	496.8	497.8	503.4	505.7	510.1	512.4	511.3	510.1
42.5°	431.9	437.5	431.9	435.1	435.1	439.7	440.7	446.3	446.3	444.1	440.7
45°	372.5	378.2	372.5	374.8	374.8	379.2	379.2	379.2	381.5	378.2	372.5
47.5°	316.6	322.2	316.6	318.8	317.7	321.1	320.0	321.1	317.7	315.5	308.8
50°	266.3	268.5	266.3	265.1	266.3	268.5	267.4	267.4	262.9	259.5	251.7
52.5°	217.0	220.4	217.0	217.0	217.0	219.3	219.3	218.2	213.7	209.2	201.4
55°	175.6	177.9	176.8	175.6	175.6	177.9	175.6	175.6	171.2	167.8	160.0
57.5°	139.9	140.9	139.9	139.9	139.9	140.9	140.9	138.7	135.3	132.0	126.4
60°	108.5	109.6	109.6	108.5	108.5	110.8	110.8	109.6	106.2	104.0	98.4
62.5°	86.2	86.2	86.2	86.2	86.2	87.2	87.2	87.2	85.0	82.8	78.3
65°	68.3	69.4	68.3	68.3	69.4	70.5	69.4	70.5	68.3	67.1	63.7
67.5°	52.5	53.7	52.5	53.7	53.7	54.9	53.7	54.9	52.5	51.5	49.3
70°	40.3	40.3	40.3	40.3	40.3	41.4	40.3	41.4	40.3	39.1	36.9
72.5°	30.2	30.2	31.3	31.3	30.2	31.3	30.2	30.2	30.2	29.1	28.0
75°	22.4	22.4	23.5	22.4	22.4	22.4	22.4	22.4	21.2	21.2	20.1
77.5°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	14.6	14.6	13.4
80°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	9.0	9.0
82.5°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	5.6	5.6
85°	3.4	3.4	3.4	4.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	1.2	1.2	1.2	2.2	1.2	1.2	2.2	2.2	1.2	1.2	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



TEST NUMBER: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	946.5	949.8	949.8	946.5	954.3	947.6	961.0	948.7	952.0	963.2	962.1
5°	943.1	947.6	948.7	946.5	956.5	950.9	964.4	952.0	957.6	968.8	968.8
7.5°	938.6	944.2	946.5	948.7	957.6	952.0	967.7	955.4	963.2	976.6	975.6
10°	928.5	936.3	940.9	944.2	953.2	949.8	966.6	956.5	963.2	978.8	977.8
12.5°	922.9	931.9	938.6	944.2	954.3	952.0	968.8	959.9	968.8	984.4	984.4
15°	918.5	928.5	936.3	946.5	956.5	954.3	972.2	964.4	973.3	992.3	991.2
17.5°	907.3	919.6	927.5	938.6	948.7	947.6	966.6	961.0	971.0	989.0	990.1
20°	888.2	899.4	908.4	921.9	933.1	930.7	950.9	945.3	955.4	974.4	975.6
22.5°	863.6	874.8	883.8	898.4	908.4	907.3	927.5	921.9	931.9	949.8	950.9
25°	834.5	844.7	853.6	867.0	878.2	878.2	896.1	890.5	901.7	919.6	919.6
27.5°	798.8	807.7	815.5	831.3	840.1	840.1	856.9	851.3	862.6	878.2	877.0
30°	755.1	763.0	769.7	783.2	791.0	792.0	806.6	801.0	812.2	825.7	825.7
32.5°	702.6	710.4	714.9	731.7	737.3	736.1	747.3	741.7	752.9	767.4	764.1
35°	646.7	650.0	653.3	670.1	672.4	667.9	679.0	673.5	681.3	695.8	693.6
37.5°	582.8	584.0	584.0	598.5	599.6	596.3	603.0	596.3	601.9	615.3	614.2
40°	512.4	511.3	510.1	521.3	520.2	513.5	518.0	512.4	520.2	530.3	524.7
42.5°	440.7	437.5	432.9	438.5	434.1	428.5	430.7	421.8	427.3	435.1	428.5
45°	370.3	363.6	354.7	355.7	350.1	343.5	340.1	331.1	330.0	337.9	332.3
47.5°	304.3	290.8	283.0	278.6	269.6	264.0	257.3	247.3	242.7	247.3	241.7
50°	245.0	231.6	221.5	211.4	202.5	195.8	184.6	177.9	171.2	172.3	167.8
52.5°	193.6	184.6	167.8	160.0	151.1	143.2	133.1	125.3	117.5	117.5	113.0
55°	153.3	140.9	129.8	118.6	109.6	103.0	92.8	85.0	77.2	76.1	71.6
57.5°	118.6	109.6	97.4	86.2	80.6	73.8	63.7	54.9	50.3	46.9	43.7
60°	91.8	82.8	72.7	63.7	57.1	52.5	42.5	35.8	31.3	29.1	25.7
62.5°	73.8	66.0	57.1	48.1	43.7	39.1	31.3	25.7	21.2	19.0	16.8
65°	59.3	52.5	45.9	39.1	35.8	31.3	25.7	21.2	17.9	15.6	13.4
67.5°	45.9	41.4	35.8	31.3	28.0	24.6	20.1	16.8	14.6	12.3	11.2
70°	34.7	31.3	28.0	23.5	21.2	19.0	15.6	12.3	11.2	10.0	9.0
72.5°	26.9	23.5	20.1	17.9	15.6	14.6	12.3	10.0	9.0	7.8	6.7
75°	17.9	16.8	14.6	12.3	11.2	10.0	9.0	7.8	6.7	5.6	5.6
77.5°	12.3	11.2	10.0	9.0	7.8	7.8	6.7	5.6	4.4	4.4	3.4
80°	7.8	6.7	6.7	5.6	5.6	5.6	4.4	3.4	3.4	3.4	2.2
82.5°	5.6	4.4	4.4	3.4	3.4	3.4	3.4	2.2	2.2	2.2	1.2
85°	3.4	2.2	2.2	2.2	2.2	2.2	2.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	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: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	953.2	963.2	963.2	972.2	973.3	971.0	961.0	961.0	974.4	982.2	968.8
5°	962.1	972.2	972.2	981.2	985.6	982.2	972.2	973.3	986.8	995.7	982.2
7.5°	970.0	980.0	982.2	992.3	995.7	992.3	982.2	984.4	999.0	1006.9	993.4
10°	973.3	983.4	984.4	995.7	1000.2	995.7	987.8	989.0	1004.6	1010.2	997.9
12.5°	981.2	991.2	991.2	1003.5	1008.0	1004.6	994.6	996.8	1012.5	1018.1	1005.7
15°	989.0	999.0	999.0	1012.5	1018.1	1013.6	1005.7	1006.9	1022.5	1028.1	1018.1
17.5°	989.0	997.9	997.9	1012.5	1018.1	1014.7	1005.7	1006.9	1023.7	1028.1	1018.1
20°	974.4	984.4	982.2	996.8	1002.4	999.0	991.2	991.2	1008.0	1012.5	1002.4
22.5°	950.9	959.9	957.6	971.0	977.8	973.3	966.6	965.4	982.2	986.8	976.6
25°	918.5	927.5	925.2	938.6	945.3	939.7	931.9	933.1	946.5	953.2	944.2
27.5°	880.4	886.0	882.6	896.1	902.8	897.2	889.4	890.5	903.9	908.4	901.7
30°	828.9	833.5	830.1	841.3	845.7	842.4	835.7	835.7	848.0	853.6	846.9
32.5°	767.4	770.8	767.4	776.4	785.4	778.6	771.9	771.9	785.4	789.8	782.0
35°	695.8	699.2	697.0	705.9	712.6	703.7	698.1	695.8	713.7	711.5	707.0
37.5°	616.4	618.7	611.9	627.6	630.9	620.9	616.4	614.2	629.9	628.7	624.3
40°	526.9	529.1	524.7	535.9	536.9	529.1	525.8	522.5	538.1	536.9	533.7
42.5°	431.9	432.9	427.3	436.3	438.5	430.7	429.6	425.1	439.7	437.5	436.3
45°	333.4	333.4	328.9	335.7	337.9	331.1	328.9	327.8	337.9	337.9	335.7
47.5°	241.7	238.3	232.7	242.7	243.9	239.4	238.3	234.9	245.0	245.0	242.7
50°	165.6	164.5	163.3	165.6	166.7	161.1	164.5	161.1	166.7	166.7	166.7
52.5°	110.8	109.6	107.4	109.6	109.6	106.2	106.2	105.2	109.6	109.6	107.4
55°	69.4	68.3	67.1	68.3	68.3	64.9	67.1	64.9	67.1	67.1	66.0
57.5°	42.5	40.3	40.3	39.1	39.1	36.9	38.1	38.1	38.1	38.1	38.1
60°	24.6	23.5	22.4	22.4	22.4	21.2	21.2	21.2	21.2	21.2	21.2
62.5°	15.6	15.6	14.6	14.6	14.6	14.6	14.6	13.4	14.6	14.6	14.6
65°	13.4	12.3	12.3	12.3	12.3	11.2	11.2	11.2	11.2	11.2	11.2
67.5°	11.2	10.0	10.0	10.0	10.0	9.0	9.0	9.0	9.0	9.0	9.0
70°	9.0	7.8	7.8	7.8	7.8	7.8	6.7	7.8	7.8	6.7	6.7
72.5°	6.7	6.7	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
75°	4.4	4.4	4.4	4.4	4.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	3.4	3.4	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	2.2	2.2	2.2	2.2	2.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	1.2	1.2	1.2	1.2	1.2	0.0	1.2	0.0	1.2	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: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°	185°	190°	195°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	984.4	973.3	967.7	978.8	983.4	977.8	973.3	965.4	973.3	977.8	983.4
5°	997.9	987.8	983.4	991.2	997.9	992.3	989.0	981.2	989.0	992.3	997.9
7.5°	1010.2	1000.2	994.6	1002.4	1010.2	1002.4	999.0	992.3	999.0	1002.4	1010.2
10°	1014.7	1003.5	999.0	1005.7	1013.6	1005.7	1001.3	996.8	1001.3	1005.7	1013.6
12.5°	1022.5	1011.3	1005.7	1011.3	1019.1	1011.3	1006.9	1003.5	1006.9	1011.3	1019.1
15°	1033.7	1023.7	1016.9	1022.5	1032.6	1023.7	1018.1	1016.9	1018.1	1023.7	1032.6
17.5°	1033.7	1025.9	1019.1	1023.7	1033.7	1026.9	1019.1	1021.4	1019.1	1026.9	1033.7
20°	1019.1	1011.3	1005.7	1005.7	1020.3	1011.3	1004.6	1008.0	1004.6	1011.3	1020.3
22.5°	993.4	986.8	981.2	980.0	994.6	986.8	977.8	984.4	977.8	986.8	994.6
25°	959.9	953.2	948.7	946.5	961.0	952.0	944.2	950.9	944.2	952.0	961.0
27.5°	916.3	910.7	906.2	902.8	916.3	908.4	900.6	907.3	900.6	908.4	916.3
30°	860.3	856.9	852.5	848.0	861.4	853.6	845.7	854.7	845.7	853.6	861.4
32.5°	795.4	793.2	787.6	783.2	796.6	787.6	782.0	788.7	782.0	787.6	796.6
35°	720.5	717.1	713.7	705.9	720.5	712.6	712.6	714.9	712.6	712.6	720.5
37.5°	636.5	634.3	629.9	623.1	635.5	629.9	627.6	634.3	627.6	629.9	635.5
40°	542.5	541.5	538.1	530.3	543.7	538.1	534.7	543.7	534.7	538.1	543.7
42.5°	444.1	441.9	438.5	437.5	444.1	439.7	443.1	443.1	443.1	439.7	444.1
45°	342.3	340.1	337.9	333.4	341.3	338.9	337.9	340.1	337.9	338.9	341.3
47.5°	248.3	246.1	243.9	240.5	248.3	245.0	245.0	247.3	245.0	245.0	248.3
50°	166.7	167.8	166.7	164.5	166.7	165.6	166.7	168.9	166.7	165.6	166.7
52.5°	110.8	110.8	108.5	107.4	109.6	108.5	111.9	109.6	111.9	108.5	109.6
55°	67.1	68.3	67.1	66.0	67.1	66.0	69.4	68.3	69.4	66.0	67.1
57.5°	38.1	38.1	39.1	38.1	40.3	39.1	39.1	39.1	39.1	39.1	40.3
60°	21.2	21.2	21.2	21.2	21.2	21.2	22.4	21.2	22.4	21.2	21.2
62.5°	14.6	14.6	14.6	13.4	14.6	13.4	14.6	14.6	14.6	13.4	14.6
65°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2
67.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0
70°	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7	6.7
72.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.2	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: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	200°	202.5°	205°	210°	215°	220°	225°	230°	235°	240°	245°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	978.8	967.7	973.3	984.4	968.8	982.2	974.4	961.0	961.0	971.0	973.3
5°	991.2	983.4	987.8	997.9	982.2	995.7	986.8	973.3	972.2	982.2	985.6
7.5°	1002.4	994.6	1000.2	1010.2	993.4	1006.9	999.0	984.4	982.2	992.3	995.7
10°	1005.7	999.0	1003.5	1014.7	997.9	1010.2	1004.6	989.0	987.8	995.7	1000.2
12.5°	1011.3	1005.7	1011.3	1022.5	1005.7	1018.1	1012.5	996.8	994.6	1004.6	1008.0
15°	1022.5	1016.9	1023.7	1033.7	1018.1	1028.1	1022.5	1006.9	1005.7	1013.6	1018.1
17.5°	1023.7	1019.1	1025.9	1033.7	1018.1	1028.1	1023.7	1006.9	1005.7	1014.7	1018.1
20°	1005.7	1005.7	1011.3	1019.1	1002.4	1012.5	1008.0	991.2	991.2	999.0	1002.4
22.5°	980.0	981.2	986.8	993.4	976.6	986.8	982.2	965.4	966.6	973.3	977.8
25°	946.5	948.7	953.2	959.9	944.2	953.2	946.5	933.1	931.9	939.7	945.3
27.5°	902.8	906.2	910.7	916.3	901.7	908.4	903.9	890.5	889.4	897.2	902.8
30°	848.0	852.5	856.9	860.3	846.9	853.6	848.0	835.7	835.7	842.4	845.7
32.5°	783.2	787.6	793.2	795.4	782.0	789.8	785.4	771.9	771.9	778.6	785.4
35°	705.9	713.7	717.1	720.5	707.0	711.5	713.7	695.8	698.1	703.7	712.6
37.5°	623.1	629.9	634.3	636.5	624.3	628.7	629.9	614.2	616.4	620.9	630.9
40°	530.3	538.1	541.5	542.5	533.7	536.9	538.1	522.5	525.8	529.1	536.9
42.5°	437.5	438.5	441.9	444.1	436.3	437.5	439.7	425.1	429.6	430.7	438.5
45°	333.4	337.9	340.1	342.3	335.7	337.9	337.9	327.8	328.9	331.1	337.9
47.5°	240.5	243.9	246.1	248.3	242.7	245.0	245.0	234.9	238.3	239.4	243.9
50°	164.5	166.7	167.8	166.7	166.7	166.7	166.7	161.1	164.5	161.1	166.7
52.5°	107.4	108.5	110.8	110.8	107.4	109.6	109.6	105.2	106.2	106.2	109.6
55°	66.0	67.1	68.3	67.1	66.0	67.1	67.1	64.9	67.1	64.9	68.3
57.5°	38.1	39.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1	36.9	39.1
60°	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	21.2	22.4
62.5°	13.4	14.6	14.6	14.6	14.6	14.6	14.6	13.4	14.6	14.6	14.6
65°	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	11.2	12.3
67.5°	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	9.0	10.0
70°	6.7	6.7	6.7	6.7	6.7	6.7	7.8	7.8	6.7	7.8	7.8
72.5°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
75°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.4
77.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.2
82.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
85°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	0.0	1.2	0.0	1.2
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: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	247.5°	250°	255°	260°	265°	270°	275°	280°	285°	290°	292.5°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	972.2	963.2	963.2	953.2	962.1	963.2	952.0	948.7	961.0	947.6	954.3
5°	981.2	972.2	972.2	962.1	968.8	968.8	957.6	952.0	964.4	950.9	956.5
7.5°	992.3	982.2	980.0	970.0	975.6	976.6	963.2	955.4	967.7	952.0	957.6
10°	995.7	984.4	983.4	973.3	977.8	978.8	963.2	956.5	966.6	949.8	953.2
12.5°	1003.5	991.2	991.2	981.2	984.4	984.4	968.8	959.9	968.8	952.0	954.3
15°	1012.5	999.0	999.0	989.0	991.2	992.3	973.3	964.4	972.2	954.3	956.5
17.5°	1012.5	997.9	997.9	989.0	990.1	989.0	971.0	961.0	966.6	947.6	948.7
20°	996.8	982.2	984.4	974.4	975.6	974.4	955.4	945.3	950.9	930.7	933.1
22.5°	971.0	957.6	959.9	950.9	950.9	949.8	931.9	921.9	927.5	907.3	908.4
25°	938.6	925.2	927.5	918.5	919.6	919.6	901.7	890.5	896.1	878.2	878.2
27.5°	896.1	882.6	886.0	880.4	877.0	878.2	862.6	851.3	856.9	840.1	840.1
30°	841.3	830.1	833.5	828.9	825.7	825.7	812.2	801.0	806.6	792.0	791.0
32.5°	776.4	767.4	770.8	767.4	764.1	767.4	752.9	741.7	747.3	736.1	737.3
35°	705.9	697.0	699.2	695.8	693.6	695.8	681.3	673.5	679.0	667.9	672.4
37.5°	627.6	611.9	618.7	616.4	614.2	615.3	601.9	596.3	603.0	596.3	599.6
40°	535.9	524.7	529.1	526.9	524.7	530.3	520.2	512.4	518.0	513.5	520.2
42.5°	436.3	427.3	432.9	431.9	428.5	435.1	427.3	421.8	430.7	428.5	434.1
45°	335.7	328.9	333.4	333.4	332.3	337.9	330.0	331.1	340.1	343.5	350.1
47.5°	242.7	232.7	238.3	241.7	241.7	247.3	242.7	247.3	257.3	264.0	269.6
50°	165.6	163.3	164.5	165.6	167.8	172.3	171.2	177.9	184.6	195.8	202.5
52.5°	109.6	107.4	109.6	110.8	113.0	117.5	117.5	125.3	133.1	143.2	151.1
55°	68.3	67.1	68.3	69.4	71.6	76.1	77.2	85.0	92.8	103.0	109.6
57.5°	39.1	40.3	40.3	42.5	43.7	46.9	50.3	54.9	63.7	73.8	80.6
60°	22.4	22.4	23.5	24.6	25.7	29.1	31.3	35.8	42.5	52.5	57.1
62.5°	14.6	14.6	15.6	15.6	16.8	19.0	21.2	25.7	31.3	39.1	43.7
65°	12.3	12.3	12.3	13.4	13.4	15.6	17.9	21.2	25.7	31.3	35.8
67.5°	10.0	10.0	10.0	11.2	11.2	12.3	14.6	16.8	20.1	24.6	28.0
70°	7.8	7.8	7.8	9.0	9.0	10.0	11.2	12.3	15.6	19.0	21.2
72.5°	5.6	5.6	6.7	6.7	6.7	7.8	9.0	10.0	12.3	14.6	15.6
75°	4.4	4.4	4.4	4.4	5.6	5.6	6.7	7.8	9.0	10.0	11.2
77.5°	2.2	2.2	3.4	3.4	3.4	4.4	4.4	5.6	6.7	7.8	7.8
80°	2.2	2.2	2.2	2.2	2.2	3.4	3.4	3.4	4.4	5.6	5.6
82.5°	1.2	1.2	1.2	1.2	1.2	2.2	2.2	2.2	3.4	3.4	3.4
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.2	2.2	2.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.2	1.2	1.2	1.2	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



TEST NUMBER: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	295°	300°	305°	310°	315°	320°	325°	330°	335°	337.5°	340°
0°	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0	961.0
2.5°	946.5	949.8	949.8	946.5	937.5	945.3	953.2	945.3	955.4	937.5	937.5
5°	946.5	948.7	947.6	943.1	934.1	940.9	946.5	938.6	946.5	929.7	928.5
7.5°	948.7	946.5	944.2	938.6	927.5	931.9	937.5	928.5	936.3	918.5	916.3
10°	944.2	940.9	936.3	928.5	916.3	919.6	922.9	915.1	920.7	902.8	901.7
12.5°	944.2	938.6	931.9	922.9	909.5	911.8	915.1	905.1	909.5	892.8	890.5
15°	946.5	936.3	928.5	918.5	903.9	905.1	907.3	896.1	900.6	882.6	881.6
17.5°	938.6	927.5	919.6	907.3	891.6	892.8	892.8	881.6	885.0	867.0	865.9
20°	921.9	908.4	899.4	888.2	871.5	871.5	871.5	860.3	862.6	846.9	844.7
22.5°	898.4	883.8	874.8	863.6	848.0	846.9	845.7	836.9	836.9	822.3	818.9
25°	867.0	853.6	844.7	834.5	818.9	816.7	816.7	808.8	807.7	794.3	792.0
27.5°	831.3	815.5	807.7	798.8	784.2	782.0	780.8	776.4	774.2	759.6	758.5
30°	783.2	769.7	763.0	755.1	741.7	739.5	738.3	733.9	732.7	718.2	718.2
32.5°	731.7	714.9	710.4	702.6	692.5	691.4	692.5	686.9	682.4	672.4	670.1
35°	670.1	653.3	650.0	646.7	638.8	636.5	635.5	634.3	628.7	622.0	618.7
37.5°	598.5	584.0	584.0	582.8	577.2	577.2	577.2	575.0	569.4	567.2	560.5
40°	521.3	510.1	511.3	512.4	510.1	511.3	512.4	510.1	505.7	503.4	497.8
42.5°	438.5	432.9	437.5	440.7	440.7	444.1	446.3	446.3	440.7	439.7	435.1
45°	355.7	354.7	363.6	370.3	372.5	378.2	381.5	379.2	379.2	379.2	374.8
47.5°	278.6	283.0	290.8	304.3	308.8	315.5	317.7	321.1	320.0	321.1	317.7
50°	211.4	221.5	231.6	245.0	251.7	259.5	262.9	267.4	267.4	268.5	266.3
52.5°	160.0	167.8	184.6	193.6	201.4	209.2	213.7	218.2	219.3	219.3	217.0
55°	118.6	129.8	140.9	153.3	160.0	167.8	171.2	175.6	175.6	177.9	175.6
57.5°	86.2	97.4	109.6	118.6	126.4	132.0	135.3	138.7	140.9	140.9	139.9
60°	63.7	72.7	82.8	91.8	98.4	104.0	106.2	109.6	110.8	110.8	108.5
62.5°	48.1	57.1	66.0	73.8	78.3	82.8	85.0	87.2	87.2	87.2	86.2
65°	39.1	45.9	52.5	59.3	63.7	67.1	68.3	70.5	69.4	70.5	69.4
67.5°	31.3	35.8	41.4	45.9	49.3	51.5	52.5	54.9	53.7	54.9	53.7
70°	23.5	28.0	31.3	34.7	36.9	39.1	40.3	41.4	40.3	41.4	40.3
72.5°	17.9	20.1	23.5	26.9	28.0	29.1	30.2	30.2	30.2	31.3	30.2
75°	12.3	14.6	16.8	17.9	20.1	21.2	21.2	22.4	22.4	22.4	22.4
77.5°	9.0	10.0	11.2	12.3	13.4	14.6	14.6	15.6	15.6	15.6	15.6
80°	5.6	6.7	6.7	7.8	9.0	9.0	10.0	10.0	10.0	10.0	10.0
82.5°	3.4	4.4	4.4	5.6	5.6	5.6	6.7	6.7	6.7	6.7	6.7
85°	2.2	2.2	2.2	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	2.2	2.2	1.2	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



TEST NUMBER: P237962

CATALOG NUMBER: LSR6B20D010BZ-EC6B10209030-6LBSW1H

CANDELA DISTRIBUTION (continued):

	345°	350°	355°	360°
0°	961.0	961.0	961.0	961.0
2.5°	946.5	940.9	949.8	936.3
5°	936.3	930.7	941.9	925.2
7.5°	924.1	918.5	928.5	911.8
10°	908.4	902.8	911.8	893.8
12.5°	895.0	889.4	899.4	882.6
15°	885.0	879.4	888.2	872.6
17.5°	869.2	862.6	872.6	855.8
20°	846.9	842.4	850.2	833.5
22.5°	821.1	816.7	825.7	808.8
25°	794.3	788.7	797.6	780.8
27.5°	759.6	755.1	764.1	747.3
30°	718.2	713.7	722.7	707.0
32.5°	671.2	666.8	673.5	660.1
35°	617.5	614.2	620.9	606.4
37.5°	559.4	556.0	562.7	548.1
40°	496.8	493.4	499.0	492.2
42.5°	435.1	431.9	437.5	431.9
45°	374.8	372.5	378.2	372.5
47.5°	318.8	316.6	322.2	316.6
50°	265.1	266.3	268.5	266.3
52.5°	217.0	217.0	220.4	217.0
55°	175.6	176.8	177.9	175.6
57.5°	139.9	139.9	140.9	139.9
60°	108.5	109.6	109.6	108.5
62.5°	86.2	86.2	86.2	86.2
65°	68.3	68.3	69.4	68.3
67.5°	53.7	52.5	53.7	52.5
70°	40.3	40.3	40.3	40.3
72.5°	31.3	31.3	30.2	30.2
75°	22.4	23.5	22.4	22.4
77.5°	15.6	15.6	15.6	15.6
80°	10.0	10.0	10.0	10.0
82.5°	6.7	6.7	6.7	6.7
85°	4.4	3.4	3.4	3.4
87.5°	2.2	1.2	1.2	1.2
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)