

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: PORTFOLIO

Report Number: P252247

Luminaire Tested: **LE_6B15D010 EC6B10208035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252247
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B15D010 EC6B10208035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1736.3 lumens
Efficiency: N/A
Efficacy: 120.6 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

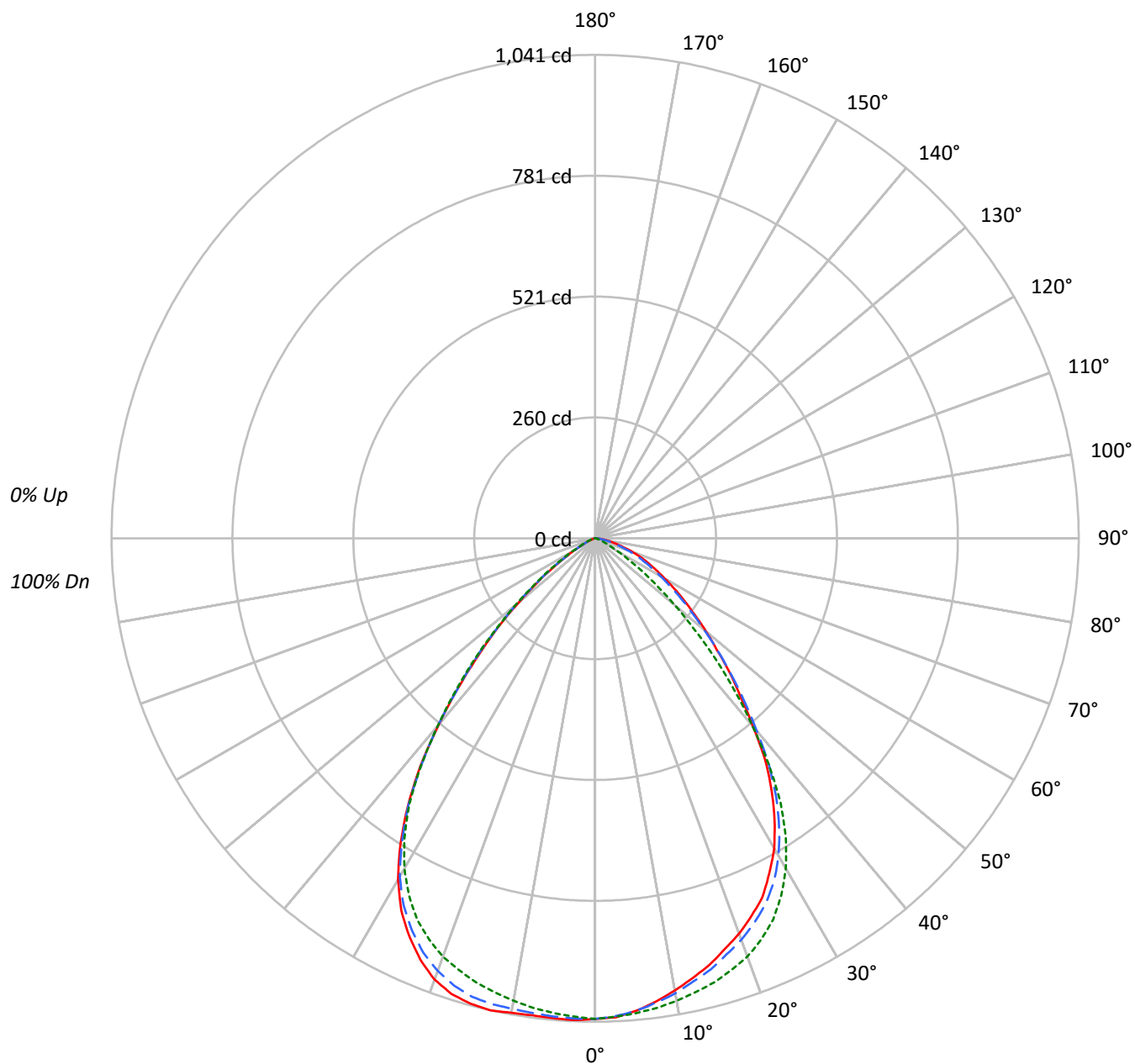
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	112	108	105	102	109	106	103	101	102	100	98		98	96	95		95
2	104	98	93	89	102	96	92	88	93	89	86		90	87	84		87
3	97	89	83	78	95	88	82	77	85	80	76		82	78	75		80
4	91	81	74	69	89	80	74	69	78	72	68		76	71	67		74
5	85	74	67	62	83	73	66	61	71	65	61		70	64	60		68
6	79	68	61	55	78	67	60	55	66	59	55		64	59	54		63
7	74	63	55	50	73	62	55	50	61	54	50		59	54	49		58
8	70	58	51	46	68	57	50	46	56	50	45		55	49	45		54
9	65	54	47	42	64	53	46	42	52	46	42		51	46	41		50
10	62	50	43	39	61	50	43	38	49	43	38		48	42	38		47

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	67518	67518	67518
5°	66872	67199	67939
10°	65492	66982	68725
15°	64239	66860	70068
20°	62908	66553	70198
25°	61360	65226	68105
30°	58090	61856	63928
35°	52764	55448	55950
40°	45036	44814	44610
45°	37828	33566	32523
50°	31586	22715	21568
55°	26593	13934	12648
60°	22508	7333	6367
65°	19482	3859	3087
70°	16214	2384	1679
75°	11973	1563	958
80°	9393	939	451
85°	7486	898	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	5.6
10°-20°	279.3	16.1
20°-30°	412.4	23.7
30°-40°	425.0	24.5
40°-50°	293.6	16.9
50°-60°	144.7	8.3
60°-70°	58.6	3.4
70°-80°	20.9	1.2
80°-90°	4.3	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°	789.1	45.5
0°-40°	1214.2	69.9
0°-60°	1652.4	95.2
0°-90°	1736.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1736.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1035	1035	1035	1035	1035	
5°	1021	1021	1026	1034	1037	96
15°	951	961	990	1022	1037	268
25°	852	869	906	932	946	390
35°	662	679	696	700	702	410
45°	410	412	364	359	352	317
55°	234	225	122	115	111	211
65°	126	114	25	20	20	125
75°	48	40	6	4	4	53
85°	10	8	1	0	0	12
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°	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9
2.5°	1032.4	1028.6	1031.1	1026.1	1032.4	1026.1	1027.4	1028.6	1027.4	1028.6	1029.9
5°	1021.1	1017.4	1021.1	1014.9	1021.1	1017.4	1017.4	1018.6	1018.6	1019.9	1021.1
7.5°	1006.1	1002.4	1006.1	999.9	1007.4	1003.6	1003.6	1006.1	1004.9	1006.1	1008.6
10°	988.6	983.6	987.4	983.6	991.1	986.1	988.6	988.6	988.6	992.4	994.9
12.5°	969.9	964.9	969.9	963.6	971.1	967.4	968.6	972.4	973.6	976.1	977.4
15°	951.1	944.9	947.4	943.6	951.1	947.4	948.6	953.6	953.6	957.4	961.1
17.5°	927.4	922.4	927.4	922.4	928.6	926.1	928.6	932.4	932.4	936.1	939.9
20°	906.1	901.1	904.9	901.1	908.6	904.9	906.1	911.1	912.4	916.1	919.9
22.5°	879.9	876.1	878.6	874.9	882.4	879.9	881.1	886.1	887.4	889.9	896.1
25°	852.4	844.9	848.6	846.1	853.6	849.9	852.4	857.4	859.9	863.6	868.6
27.5°	812.4	808.6	811.1	811.1	817.4	813.6	814.9	819.9	823.6	827.4	833.6
30°	771.1	764.9	767.4	768.6	773.6	771.1	773.6	778.6	779.9	784.9	789.9
32.5°	718.8	716.2	721.2	718.8	721.2	721.2	722.5	726.2	728.8	731.2	737.4
35°	662.5	657.5	662.5	660.0	666.2	662.5	666.2	670.0	670.0	675.0	678.8
37.5°	601.2	595.0	597.5	597.5	600.0	598.8	598.8	605.0	606.2	610.0	613.8
40°	528.8	526.2	531.2	530.0	531.2	531.2	532.5	536.2	538.8	540.0	541.2
42.5°	463.8	465.0	466.2	466.2	466.2	466.2	466.2	471.2	470.0	473.8	475.0
45°	410.0	405.0	407.5	406.2	410.0	406.2	410.0	413.8	411.2	415.0	412.5
47.5°	355.0	355.0	355.0	353.8	356.2	355.0	357.5	358.8	358.8	358.8	357.5
50°	311.2	307.5	308.8	308.8	310.0	308.8	311.2	312.5	312.5	310.0	305.0
52.5°	268.8	267.5	267.5	270.0	270.0	268.8	268.8	268.8	268.8	265.0	262.5
55°	233.8	231.2	232.5	232.5	232.5	232.5	233.8	232.5	232.5	228.8	225.0
57.5°	202.5	200.0	200.0	200.0	201.2	200.0	200.0	200.0	198.8	195.0	190.0
60°	172.5	171.2	172.5	172.5	173.8	172.5	172.5	172.5	170.0	166.2	161.2
62.5°	147.5	147.5	147.5	148.8	148.8	147.5	147.5	146.2	145.0	140.0	135.0
65°	126.2	125.0	126.2	126.2	127.5	127.5	126.2	125.0	123.8	118.8	113.8
67.5°	105.0	103.8	105.0	105.0	106.2	105.0	105.0	105.0	101.2	98.8	93.8
70°	85.0	83.8	83.8	83.8	85.0	82.5	83.8	83.8	81.2	77.5	72.5
72.5°	65.0	65.0	65.0	65.0	65.0	65.0	63.8	63.8	61.2	57.5	55.0
75°	47.5	47.5	48.8	48.8	47.5	47.5	47.5	46.2	45.0	42.5	40.0
77.5°	35.0	35.0	35.0	35.0	33.8	33.8	33.8	32.5	31.2	30.0	27.5
80°	25.0	25.0	25.0	23.8	25.0	23.8	23.8	23.8	21.2	20.0	18.8
82.5°	17.5	16.2	16.2	16.2	16.2	16.2	16.2	15.0	15.0	13.8	12.5
85°	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.8	7.5	7.5
87.5°	5.0	6.2	6.2	6.2	6.2	6.2	6.2	5.0	5.0	5.0	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9
2.5°	1029.9	1029.9	1032.4	1028.6	1034.9	1031.1	1029.9	1036.1	1032.4	1031.1	1033.6
5°	1021.1	1022.4	1023.6	1021.1	1027.4	1023.6	1023.6	1029.9	1027.4	1026.1	1029.9
7.5°	1009.9	1011.1	1013.6	1012.4	1017.4	1014.9	1016.1	1022.4	1019.9	1019.9	1023.6
10°	996.1	998.6	1001.1	1001.1	1007.4	1004.9	1004.9	1012.4	1009.9	1011.1	1016.1
12.5°	979.9	983.6	987.4	988.6	994.9	991.1	992.4	1001.1	999.9	1001.1	1006.1
15°	962.4	967.4	971.1	971.1	978.6	974.9	978.6	987.4	984.9	989.9	996.1
17.5°	942.4	947.4	952.4	953.6	961.1	958.6	963.6	972.4	972.4	974.9	982.4
20°	923.6	929.9	932.4	936.1	943.6	942.4	944.9	954.9	954.9	958.6	966.1
22.5°	898.6	904.9	909.9	913.6	919.9	919.9	923.6	932.4	932.4	934.9	942.4
25°	871.1	878.6	882.4	886.1	892.4	891.1	894.9	902.4	903.6	906.1	913.6
27.5°	836.1	842.4	847.4	849.9	858.6	853.6	857.4	866.1	864.9	867.4	873.6
30°	792.4	798.6	803.6	803.6	811.1	811.1	814.9	818.6	818.6	821.1	826.1
32.5°	741.1	748.6	748.6	752.4	757.4	752.4	757.4	762.4	759.9	763.6	767.4
35°	682.5	686.2	687.5	687.5	691.2	690.0	688.8	692.5	690.0	696.2	700.0
37.5°	611.2	616.2	613.8	616.2	615.0	611.2	611.2	617.5	612.5	613.8	617.5
40°	542.5	542.5	541.2	535.0	536.2	532.5	531.2	532.5	527.5	526.2	531.2
42.5°	471.2	470.0	466.2	457.5	458.8	452.5	447.5	447.5	445.0	443.8	445.0
45°	407.5	403.8	397.5	387.5	385.0	380.0	370.0	367.5	363.8	363.8	365.0
47.5°	348.8	343.8	333.8	322.5	316.2	310.0	300.0	296.2	290.0	287.5	290.0
50°	300.0	291.2	278.8	262.5	256.2	248.8	238.8	232.5	226.2	223.8	222.5
52.5°	255.0	242.5	230.0	210.0	205.0	197.5	183.8	177.5	171.2	166.2	166.2
55°	216.2	205.0	187.5	168.8	161.2	153.8	140.0	131.2	125.0	122.5	120.0
57.5°	181.2	168.8	152.5	132.5	125.0	117.5	103.8	95.0	88.8	85.0	82.5
60°	152.5	138.8	122.5	105.0	96.2	88.8	75.0	66.2	60.0	56.2	53.8
62.5°	125.0	113.8	97.5	81.2	73.8	66.2	55.0	46.2	40.0	37.5	33.8
65°	105.0	93.8	78.8	65.0	58.8	51.2	41.2	33.8	28.8	25.0	22.5
67.5°	85.0	76.2	63.8	51.2	45.0	40.0	31.2	25.0	20.0	17.5	16.2
70°	67.5	58.8	48.8	38.8	35.0	30.0	23.8	17.5	15.0	12.5	11.2
72.5°	50.0	43.8	36.2	28.8	25.0	22.5	16.2	13.8	10.0	8.8	7.5
75°	36.2	31.2	26.2	20.0	17.5	16.2	12.5	8.8	7.5	6.2	5.0
77.5°	25.0	22.5	17.5	13.8	12.5	11.2	8.8	6.2	5.0	3.8	3.8
80°	16.2	13.8	11.2	8.8	8.8	7.5	5.0	3.8	3.8	2.5	2.5
82.5°	10.0	8.8	7.5	6.2	5.0	5.0	3.8	2.5	2.5	1.2	1.2
85°	6.2	5.0	3.8	3.8	2.5	2.5	2.5	1.2	1.2	1.2	1.2
87.5°	2.5	2.5	2.5	1.2	1.2	1.2	1.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9
2.5°	1033.6	1033.6	1036.1	1032.4	1034.9	1034.9	1037.4	1032.4	1034.9	1036.1	1038.6
5°	1028.6	1029.9	1032.4	1031.1	1032.4	1032.4	1034.9	1028.6	1033.6	1033.6	1037.4
7.5°	1023.6	1023.6	1026.1	1024.9	1027.4	1028.6	1031.1	1026.1	1031.1	1031.1	1034.9
10°	1017.4	1017.4	1021.1	1019.9	1023.6	1024.9	1028.6	1023.6	1028.6	1029.9	1033.6
12.5°	1008.6	1009.9	1013.6	1013.6	1017.4	1019.9	1023.6	1021.1	1027.4	1028.6	1033.6
15°	998.6	1001.1	1006.1	1004.9	1008.6	1012.4	1017.4	1013.6	1022.4	1024.9	1029.9
17.5°	986.1	988.6	992.4	992.4	996.1	998.6	1004.9	1002.4	1009.9	1011.1	1017.4
20°	967.4	971.1	976.1	974.9	978.6	981.1	986.1	983.6	991.1	993.6	999.9
22.5°	944.9	947.4	951.1	951.1	954.9	957.4	962.4	958.6	966.1	967.4	972.4
25°	914.9	917.4	919.9	921.1	924.9	926.1	928.6	926.1	932.4	933.6	939.9
27.5°	876.1	877.4	881.1	881.1	883.6	884.9	888.6	883.6	892.4	892.4	896.1
30°	829.9	828.6	833.6	831.1	833.6	833.6	837.4	834.9	841.1	838.6	842.4
32.5°	768.6	771.1	771.1	768.6	773.6	772.4	772.4	769.9	773.6	774.9	777.4
35°	697.5	701.2	701.2	702.5	703.8	700.0	701.2	693.8	700.0	701.2	702.5
37.5°	620.0	616.2	618.8	615.0	621.2	613.8	613.8	608.8	613.8	613.8	615.0
40°	531.2	530.0	532.5	530.0	528.8	527.5	525.0	521.2	526.2	523.8	527.5
42.5°	447.5	446.2	446.2	443.8	442.5	442.5	440.0	437.5	436.2	436.2	442.5
45°	361.2	363.8	361.2	360.0	362.5	360.0	361.2	356.2	358.8	356.2	358.8
47.5°	288.8	290.0	287.5	285.0	288.8	285.0	285.0	281.2	286.2	286.2	283.8
50°	223.8	222.5	220.0	222.5	221.2	221.2	221.2	217.5	220.0	216.2	218.8
52.5°	165.0	163.8	163.8	162.5	163.8	162.5	162.5	161.2	161.2	160.0	161.2
55°	120.0	118.8	116.2	116.2	116.2	117.5	116.2	115.0	115.0	113.8	115.0
57.5°	81.2	78.8	78.8	78.8	78.8	77.5	77.5	76.2	77.5	76.2	77.5
60°	52.5	52.5	50.0	50.0	50.0	50.0	50.0	48.8	50.0	50.0	50.0
62.5°	32.5	32.5	31.2	30.0	31.2	30.0	30.0	30.0	31.2	30.0	31.2
65°	21.2	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
67.5°	15.0	13.8	13.8	13.8	13.8	13.8	13.8	12.5	13.8	13.8	13.8
70°	10.0	10.0	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
72.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
75°	5.0	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	3.8	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	2.5	2.5	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°	1.2	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	1.2	1.2	1.2	1.2	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



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CATALOG NUMBER: LE_6B15D010 EC6B10208035 6LBSW1H

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9	1034.9
2.5°	1034.9	1036.1	1033.6	1034.9	1032.4	1034.9	1036.1	1038.6
5°	1032.4	1033.6	1031.1	1033.6	1031.1	1033.6	1034.9	1037.4
7.5°	1029.9	1032.4	1029.9	1032.4	1029.9	1032.4	1033.6	1036.1
10°	1029.9	1033.6	1031.1	1034.9	1031.1	1033.6	1036.1	1037.4
12.5°	1029.9	1033.6	1032.4	1034.9	1033.6	1036.1	1038.6	1041.1
15°	1027.4	1031.1	1028.6	1032.4	1031.1	1032.4	1037.4	1037.4
17.5°	1013.6	1017.4	1017.4	1019.9	1019.9	1023.6	1026.1	1028.6
20°	996.1	999.9	998.6	1002.4	1002.4	1006.1	1008.6	1011.1
22.5°	969.9	974.9	973.6	977.4	976.1	978.6	983.6	982.4
25°	936.1	942.4	941.1	943.6	942.4	942.4	944.9	946.1
27.5°	894.9	898.6	897.4	899.9	897.4	899.9	902.4	903.6
30°	841.1	843.6	842.4	843.6	842.4	844.9	846.1	848.6
32.5°	776.1	779.9	776.1	778.6	777.4	777.4	782.4	779.9
35°	698.8	700.0	701.2	701.2	698.8	700.0	702.5	702.5
37.5°	612.5	618.8	611.2	615.0	613.8	613.8	613.8	617.5
40°	522.5	523.8	521.2	521.2	521.2	520.0	525.0	523.8
42.5°	437.5	438.8	437.5	433.8	435.0	435.0	438.8	433.8
45°	355.0	357.5	356.2	356.2	353.8	353.8	355.0	352.5
47.5°	281.2	283.8	280.0	281.2	278.8	281.2	280.0	282.5
50°	213.8	216.2	215.0	216.2	216.2	213.8	217.5	212.5
52.5°	160.0	161.2	160.0	158.8	157.5	157.5	160.0	158.8
55°	113.8	112.5	112.5	112.5	113.8	113.8	112.5	111.2
57.5°	76.2	76.2	75.0	75.0	76.2	73.8	75.0	73.8
60°	48.8	48.8	48.8	48.8	47.5	48.8	48.8	48.8
62.5°	30.0	30.0	30.0	30.0	30.0	30.0	30.0	30.0
65°	20.0	20.0	20.0	20.0	20.0	20.0	20.0	20.0
67.5°	12.5	13.8	13.8	13.8	12.5	12.5	12.5	12.5
70°	8.8	8.8	8.8	8.8	8.8	8.8	8.8	8.8
72.5°	6.2	6.2	6.2	6.2	6.2	6.2	6.2	6.2
75°	3.8	3.8	3.8	3.8	3.8	3.8	3.8	3.8
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	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
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.2	1.2	1.2	1.2	1.2	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)