

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: P252131

Luminaire Tested: **LE_6B10D010 EC6B10208040 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252131
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LE_6B10D010 EC6B10208040 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1752.5 lumens
Efficiency: N/A
Efficacy: 175.3 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

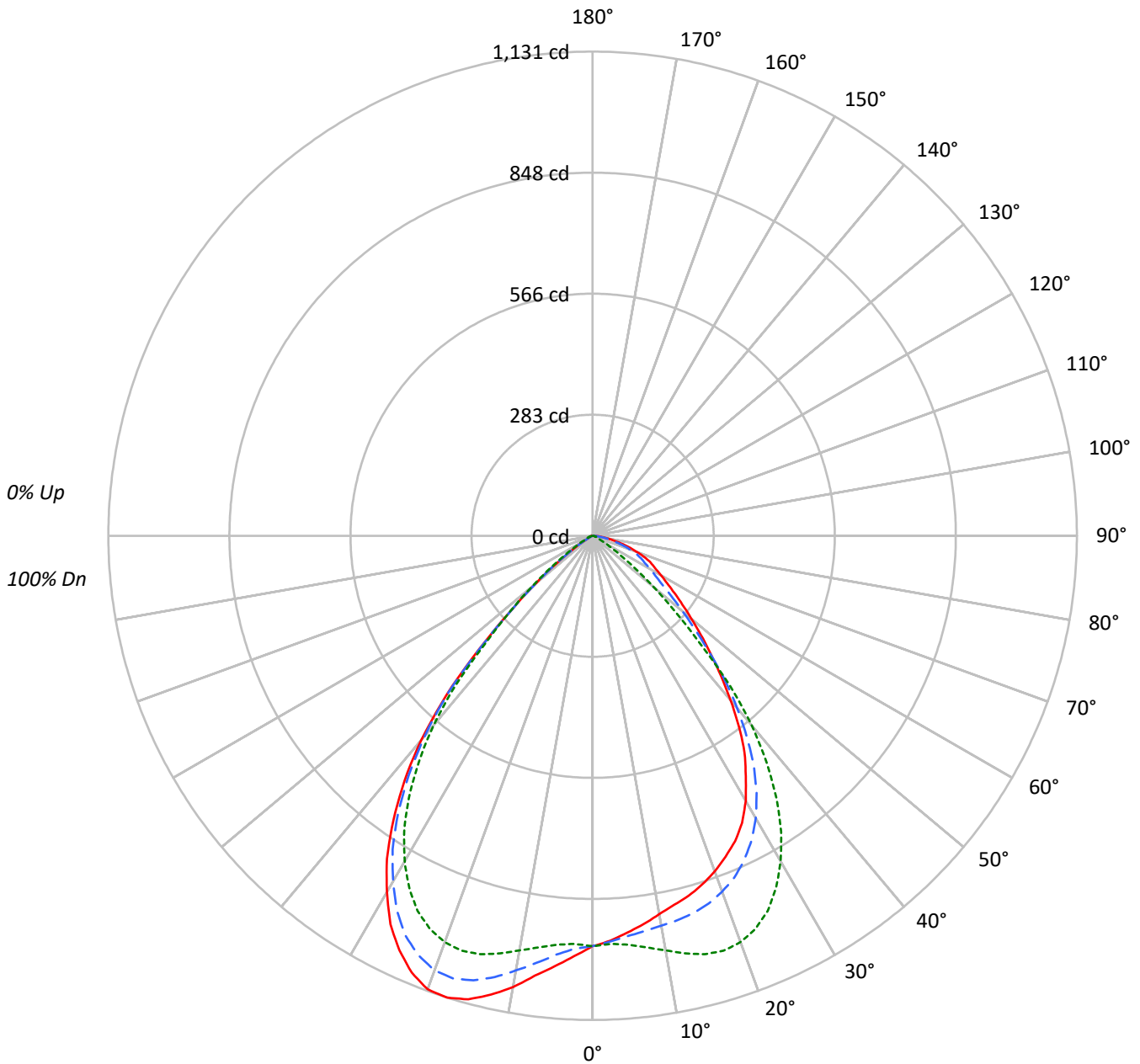
Input Watts (W): 10
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	62553	62553	62553
5°	60932	62792	66086
10°	59450	65154	70924
15°	58755	68346	75715
20°	57910	70129	78273
25°	56681	69610	76873
30°	53863	66150	72365
35°	49284	59645	64599
40°	42625	49260	53007
45°	35937	32302	34673
50°	30510	18696	17579
55°	26491	8974	6779
60°	23930	4188	1683
65°	23218	2408	556
70°	20811	1927	534
75°	17116	1386	227
80°	12736	714	0
85°	10929	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	92.6	5.3
10°-20°	282.2	16.1
20°-30°	431.2	24.6
30°-40°	451.0	25.7
40°-50°	292.6	16.7
50°-60°	116.2	6.6
60°-70°	55.1	3.1
70°-80°	26.2	1.5
80°-90°	5.3	0.3
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°	806.1	46.0
0°-40°	1257.1	71.7
0°-60°	1665.8	95.1
0°-90°	1752.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1752.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	959	959	959	959	959	
5°	930	939	959	983	1009	88
15°	870	912	1012	1075	1121	245
25°	787	837	967	1032	1068	361
35°	619	656	749	793	811	383
45°	390	386	350	371	376	303
55°	233	198	79	61	60	211
65°	150	125	16	4	4	147
75°	68	55	6	2	1	73
85°	15	9	0	0	0	17
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°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8
2.5°	946.9	948.6	938.6	935.9	943.1	945.9	946.9	944.1	945.0	948.6	948.6
5°	930.4	932.1	923.0	920.2	927.6	929.4	932.1	931.2	934.0	939.5	938.6
7.5°	914.8	917.5	907.4	903.8	912.9	917.5	919.4	919.4	923.0	930.4	931.2
10°	897.4	901.0	891.9	890.0	900.1	904.6	905.6	907.4	912.9	923.0	924.9
12.5°	882.6	886.4	879.9	877.1	888.1	892.8	894.6	898.2	904.6	917.5	919.4
15°	869.9	872.6	865.2	863.4	874.4	879.9	880.9	886.4	894.6	909.2	912.0
17.5°	853.4	855.1	849.6	847.9	858.9	864.4	865.2	871.6	881.8	896.4	901.0
20°	834.1	835.9	830.4	828.6	839.6	846.0	846.9	852.4	864.4	879.9	884.5
22.5°	811.1	814.9	808.4	806.6	817.6	823.1	825.9	830.4	842.4	857.9	864.4
25°	787.4	787.4	782.8	781.9	791.9	798.4	797.4	803.9	815.8	831.4	836.9
27.5°	756.2	755.2	750.8	749.8	760.8	766.2	764.5	770.9	781.9	797.4	802.9
30°	715.0	716.8	710.4	708.5	717.8	726.9	726.0	732.4	743.4	758.0	761.8
32.5°	665.5	667.2	666.4	663.6	671.9	676.5	679.2	683.8	693.0	708.5	712.2
35°	618.8	616.0	612.2	612.2	620.5	627.9	625.1	630.6	639.8	655.4	656.2
37.5°	561.0	560.0	558.2	556.4	565.5	567.4	568.2	572.0	580.2	593.0	591.2
40°	500.5	501.4	500.5	496.8	502.2	509.6	508.8	510.5	517.9	527.0	524.2
42.5°	443.6	443.6	443.6	440.0	446.4	450.0	451.9	451.0	452.8	461.0	457.4
45°	389.5	390.5	389.5	388.6	389.5	391.4	389.5	388.6	388.6	391.4	385.9
47.5°	342.8	342.8	340.0	337.2	340.0	341.0	338.2	335.5	334.5	333.6	324.5
50°	300.6	299.8	298.8	294.2	297.0	297.9	294.2	292.4	288.8	284.1	273.1
52.5°	264.0	263.0	262.1	257.6	259.4	260.2	256.6	253.0	248.4	244.8	231.0
55°	232.9	231.9	231.9	229.1	227.4	229.1	225.5	222.8	216.4	211.8	198.0
57.5°	206.2	206.2	204.4	201.6	202.6	202.6	198.9	195.2	189.8	184.2	173.2
60°	183.4	183.4	183.4	180.6	180.6	180.6	178.8	175.1	170.5	165.0	154.0
62.5°	165.0	165.0	164.1	161.4	162.2	162.2	160.4	156.8	152.1	148.5	137.5
65°	150.4	150.4	150.4	147.6	147.6	148.5	146.6	143.0	139.4	134.8	124.6
67.5°	132.0	131.1	131.1	129.2	130.1	131.1	129.2	126.5	121.9	119.1	110.0
70°	109.1	110.0	110.9	108.1	109.1	109.1	108.1	105.4	102.6	99.9	91.6
72.5°	88.9	88.9	88.0	87.1	87.1	88.0	86.1	83.4	81.6	79.8	73.4
75°	67.9	66.9	67.9	66.0	66.0	66.0	64.1	63.2	62.4	59.6	55.0
77.5°	49.5	48.6	48.6	46.8	47.6	47.6	46.8	44.9	43.1	42.1	38.5
80°	33.9	33.9	33.9	33.0	33.0	32.1	32.1	31.1	29.4	28.4	26.6
82.5°	22.9	22.9	22.9	22.0	22.0	22.0	21.1	20.1	19.2	18.4	16.5
85°	14.6	14.6	14.6	13.8	13.8	13.8	12.9	12.9	11.9	11.0	9.1
87.5°	8.2	8.2	8.2	7.4	7.4	7.4	7.4	7.4	6.4	5.5	4.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8
2.5°	955.1	942.2	950.5	950.5	947.8	955.1	959.6	963.4	962.4	954.1	953.2
5°	947.8	936.8	945.9	946.9	944.1	954.1	960.6	965.1	966.1	958.8	959.6
7.5°	942.2	933.1	945.0	948.6	947.8	956.9	964.2	971.6	975.2	969.8	970.6
10°	939.5	932.1	945.0	950.5	951.4	961.5	972.5	982.6	987.1	983.5	986.2
12.5°	935.9	931.2	945.9	954.1	957.9	967.9	981.6	993.6	1000.9	999.1	1004.6
15°	932.1	928.5	945.9	957.9	962.4	971.6	987.1	1004.6	1012.9	1011.9	1019.2
17.5°	923.0	922.1	940.4	953.2	959.6	970.6	985.4	1006.4	1014.6	1016.5	1025.6
20°	908.4	908.4	928.5	942.2	949.6	959.6	978.0	998.1	1008.2	1010.1	1020.1
22.5°	888.1	890.0	909.2	923.0	934.0	941.4	960.6	981.6	990.9	993.6	1004.6
25°	861.6	863.4	881.8	895.5	907.4	915.6	934.0	953.2	964.2	967.0	975.2
27.5°	826.8	830.4	847.9	861.6	871.6	877.1	896.4	916.6	924.9	927.6	935.9
30°	786.4	787.4	804.8	816.6	826.8	831.4	847.9	868.9	875.4	878.1	890.0
32.5°	737.0	736.0	752.5	763.5	771.8	777.2	794.6	808.4	814.9	819.4	825.9
35°	677.4	676.5	688.4	701.2	707.6	709.5	726.9	741.5	745.2	748.9	757.1
37.5°	610.5	610.5	620.5	627.0	634.2	637.0	645.2	661.8	668.2	667.2	673.8
40°	539.9	536.2	543.5	550.0	551.8	552.8	561.0	573.8	578.4	578.4	583.0
42.5°	465.6	460.1	461.0	464.8	466.5	460.1	465.6	473.9	471.1	474.8	475.8
45°	386.8	378.5	374.9	366.6	368.5	362.0	358.4	360.2	359.2	350.1	352.0
47.5°	322.6	308.0	301.5	289.6	286.9	279.5	275.0	266.8	259.4	259.4	254.9
50°	268.5	253.9	241.1	227.4	222.8	216.4	206.2	195.2	189.8	184.2	179.6
52.5°	225.5	209.9	194.4	179.6	173.2	165.0	151.2	140.2	130.1	124.6	119.1
55°	190.6	173.2	156.8	141.1	132.9	124.6	110.9	98.1	86.1	78.9	74.2
57.5°	164.1	147.6	130.1	113.6	106.4	97.1	82.5	68.8	57.8	49.5	44.9
60°	144.9	128.4	112.8	95.4	88.0	78.9	63.2	50.4	39.4	32.1	26.6
62.5°	128.4	113.6	97.1	81.6	74.2	65.1	50.4	37.6	27.5	20.1	15.6
65°	116.4	101.8	88.0	72.4	66.0	56.9	43.1	31.1	22.0	15.6	11.0
67.5°	102.6	89.9	76.1	63.2	56.9	49.5	36.6	26.6	18.4	12.9	9.1
70°	86.1	76.1	64.1	52.2	47.6	41.2	30.2	22.0	14.6	10.1	7.4
72.5°	68.8	60.5	51.4	42.1	38.5	32.1	24.8	17.4	11.0	7.4	5.5
75°	52.2	45.9	38.5	32.1	28.4	24.8	18.4	12.9	8.2	5.5	3.6
77.5°	35.8	33.0	27.5	22.0	20.1	17.4	11.9	8.2	5.5	3.6	1.9
80°	24.8	22.0	18.4	14.6	12.9	11.0	7.4	5.5	2.8	1.9	0.9
82.5°	15.6	12.9	11.0	9.1	8.2	6.4	4.6	2.8	1.9	0.9	0.9
85°	8.2	7.4	6.4	4.6	4.6	3.6	2.8	1.9	0.9	0.0	0.0
87.5°	4.6	3.6	2.8	1.9	1.9	0.9	0.9	0.9	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°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8
2.5°	964.2	964.2	963.4	974.4	961.5	974.4	967.9	974.4	965.1	964.2	965.1
5°	971.6	974.4	975.2	985.4	973.4	989.0	983.5	989.0	982.6	984.4	987.1
7.5°	986.2	990.9	989.9	1002.8	990.9	1008.2	1004.6	1012.9	1006.4	1008.2	1011.9
10°	1002.8	1008.2	1009.1	1022.0	1011.0	1032.1	1027.5	1036.6	1031.1	1033.9	1038.5
12.5°	1022.0	1028.4	1029.4	1044.0	1032.1	1054.1	1051.4	1060.5	1055.9	1058.6	1064.1
15°	1036.6	1045.9	1047.6	1062.4	1049.5	1072.4	1070.6	1082.5	1075.1	1079.8	1084.4
17.5°	1044.0	1052.2	1055.9	1069.6	1058.6	1081.6	1079.8	1089.9	1084.4	1088.9	1094.4
20°	1039.4	1049.5	1052.2	1066.0	1055.0	1077.9	1075.1	1085.2	1079.8	1083.4	1088.9
22.5°	1022.9	1033.0	1036.6	1049.5	1039.4	1060.5	1059.6	1068.8	1061.4	1066.0	1070.6
25°	993.6	1004.6	1006.4	1018.4	1007.4	1029.4	1027.5	1037.6	1032.1	1034.9	1041.2
27.5°	951.4	964.2	967.0	977.1	968.9	987.1	987.1	995.4	989.0	989.0	995.4
30°	901.0	913.9	915.6	923.9	916.6	933.1	934.0	942.2	932.1	937.6	938.6
32.5°	839.6	847.9	853.4	860.6	849.6	870.8	868.0	874.4	868.9	868.9	873.5
35°	765.4	775.4	778.1	787.4	778.1	794.6	794.6	798.4	792.9	792.9	800.1
37.5°	684.8	692.0	693.0	702.1	694.8	708.5	707.6	710.4	704.9	708.5	708.5
40°	590.2	595.8	597.6	602.2	601.2	611.4	610.5	612.2	609.5	610.5	612.2
42.5°	480.2	487.6	491.2	495.0	489.5	503.2	500.5	503.2	502.2	503.2	506.0
45°	353.8	359.2	362.0	363.0	361.1	369.4	375.8	370.2	371.2	369.4	373.0
47.5°	255.8	256.6	254.9	260.2	255.8	259.4	261.2	262.1	256.6	255.8	259.4
50°	175.1	179.6	173.2	176.0	175.1	178.8	176.9	177.9	172.4	175.1	173.2
52.5°	116.4	115.5	113.6	114.6	112.8	112.8	112.8	114.6	110.9	109.1	107.2
55°	70.6	68.8	65.1	64.1	64.1	65.1	63.2	61.4	61.4	60.5	60.5
57.5°	41.2	38.5	36.6	35.8	33.9	33.0	32.1	32.1	30.2	30.2	30.2
60°	22.9	20.1	18.4	16.5	16.5	15.6	14.6	13.8	13.8	13.8	12.9
62.5°	11.9	10.1	8.2	7.4	7.4	6.4	5.5	5.5	5.5	5.5	4.6
65°	8.2	6.4	5.5	4.6	4.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	6.4	5.5	4.6	3.6	3.6	3.6	2.8	2.8	2.8	2.8	2.8
70°	5.5	3.6	3.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	3.6	3.6	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
75°	2.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
80°	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	958.8	958.8	958.8	958.8	958.8	958.8	958.8	958.8
2.5°	973.4	972.5	973.4	975.2	971.6	982.6	977.1	982.6
5°	994.5	995.4	996.4	999.1	994.5	1008.2	1000.9	1009.1
7.5°	1022.0	1022.9	1023.9	1026.6	1023.9	1037.6	1029.4	1036.6
10°	1050.4	1052.2	1052.2	1056.9	1054.1	1066.9	1061.4	1070.6
12.5°	1077.0	1078.9	1080.6	1083.4	1081.6	1095.4	1090.8	1098.1
15°	1098.1	1101.8	1102.6	1106.4	1104.5	1119.1	1113.6	1121.0
17.5°	1108.1	1111.9	1111.9	1116.4	1114.6	1130.1	1122.9	1131.1
20°	1102.6	1105.4	1106.4	1110.9	1109.1	1124.6	1117.4	1127.4
22.5°	1085.2	1086.1	1087.1	1091.6	1090.8	1104.5	1098.1	1104.5
25°	1053.1	1055.9	1055.0	1058.6	1058.6	1069.6	1062.4	1067.9
27.5°	1007.4	1010.1	1010.1	1014.6	1011.0	1022.0	1014.6	1022.9
30°	951.4	954.1	952.4	956.0	952.4	963.4	957.9	960.6
32.5°	884.5	884.5	885.4	886.4	884.5	894.6	889.1	894.6
35°	804.8	806.6	807.5	808.4	806.6	813.9	807.5	811.1
37.5°	715.0	719.5	718.6	719.5	716.8	726.0	720.5	722.2
40°	618.8	618.8	617.8	619.6	616.9	624.2	620.5	622.4
42.5°	506.9	509.6	506.0	510.5	503.2	513.2	509.6	506.9
45°	380.4	376.8	375.8	376.8	374.0	374.9	377.6	375.8
47.5°	259.4	259.4	257.6	254.9	258.5	259.4	255.8	255.8
50°	174.1	174.1	172.4	171.4	173.2	172.4	170.5	173.2
52.5°	110.9	107.2	107.2	109.1	107.2	105.4	108.1	106.4
55°	60.5	58.6	58.6	60.5	58.6	58.6	57.8	59.6
57.5°	29.4	30.2	29.4	29.4	29.4	29.4	28.4	29.4
60°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9
62.5°	5.5	5.5	4.6	4.6	4.6	4.6	4.6	4.6
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	2.8	2.8	2.8	2.8	2.8	3.6	2.8	2.8
70°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	2.8
72.5°	2.8	2.8	3.6	3.6	3.6	3.6	3.6	3.6
75°	1.9	1.9	1.9	0.9	0.9	0.9	0.9	0.9
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	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
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)