

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: P252249

Luminaire Tested: **LE_6B15D010 EC6B10208050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252249
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 EC6B10208050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1753.7 lumens
Efficiency: N/A
Efficacy: 121.8 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

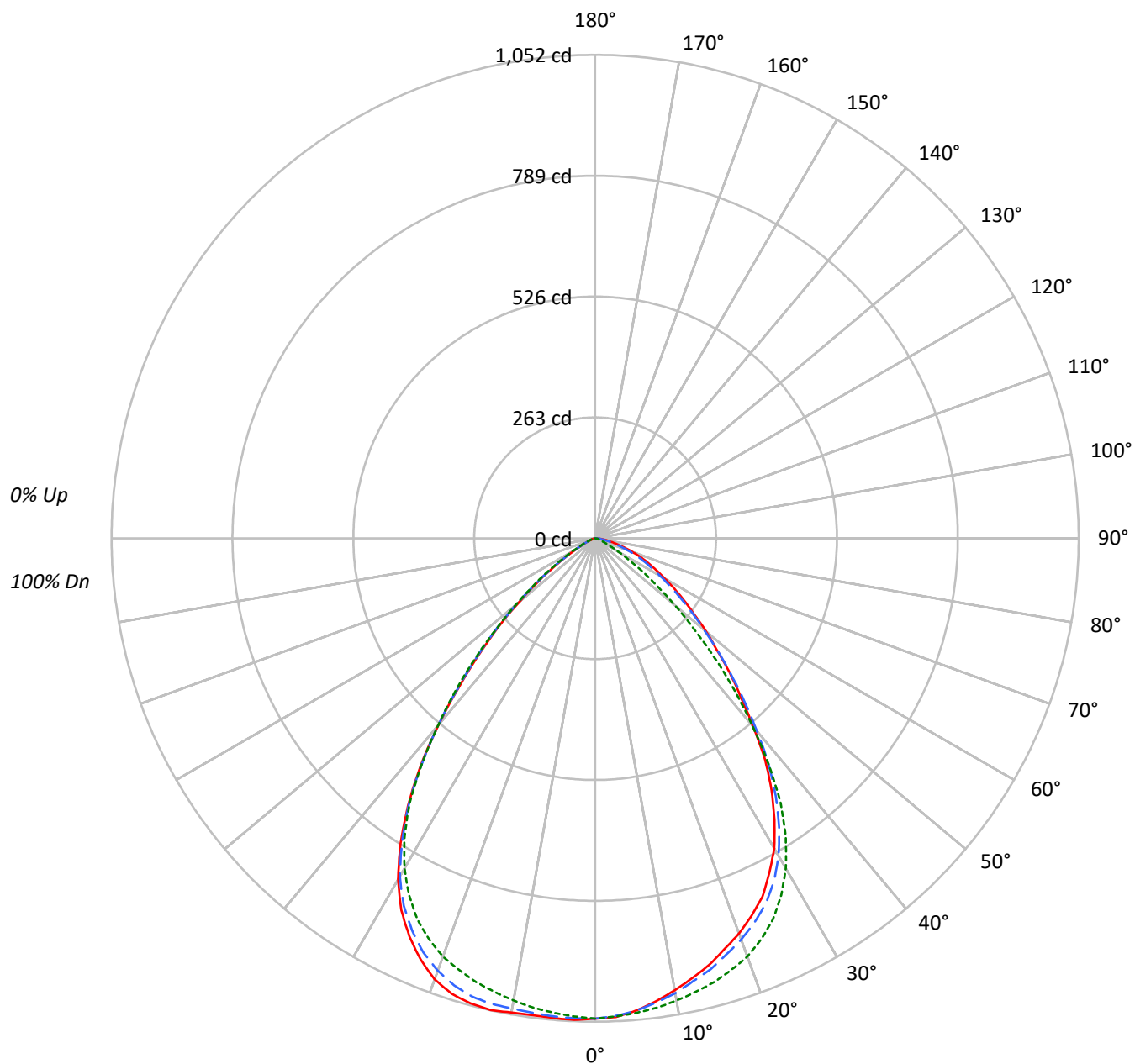
Input Watts (W): 14.4
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	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°	68203	68203	68203
5°	67553	67880	68627
10°	66154	67665	69420
15°	64894	67535	70777
20°	63540	67234	70913
25°	61979	65881	68803
30°	58685	62489	64576
35°	53290	56006	56507
40°	45478	45266	45053
45°	38207	33898	32846
50°	31910	22938	21781
55°	26855	14081	12785
60°	22730	7411	6420
65°	19682	3890	3118
70°	16385	2403	1698
75°	12099	1563	958
80°	9468	939	451
85°	7560	898	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.5	5.6
10°-20°	282.1	16.1
20°-30°	416.5	23.8
30°-40°	429.3	24.5
40°-50°	296.5	16.9
50°-60°	146.1	8.3
60°-70°	59.2	3.4
70°-80°	21.1	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°	797.1	45.5
0°-40°	1226.4	69.9
0°-60°	1669.1	95.2
0°-90°	1753.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1753.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1045	1045	1045	1045	1045	
5°	1032	1032	1036	1044	1048	97
15°	961	971	1000	1033	1048	271
25°	861	877	915	942	956	394
35°	669	686	703	707	710	415
45°	414	417	367	362	356	320
55°	236	227	124	116	112	213
65°	128	115	25	20	20	127
75°	48	40	6	4	4	54
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°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4
2.5°	1042.9	1039.0	1041.5	1036.5	1042.9	1036.5	1037.8	1039.0	1037.8	1039.0	1040.2
5°	1031.5	1027.6	1031.5	1025.1	1031.5	1027.6	1027.6	1028.9	1028.9	1030.2	1031.5
7.5°	1016.2	1012.5	1016.2	1010.0	1017.6	1013.8	1013.8	1016.2	1015.0	1016.2	1018.9
10°	998.6	993.6	997.4	993.6	1001.1	996.1	998.6	998.6	998.6	1002.4	1005.0
12.5°	979.8	974.6	979.8	973.4	981.0	977.1	978.4	982.2	983.5	986.0	987.2
15°	960.8	954.5	957.0	953.1	960.8	957.0	958.2	963.2	963.2	967.1	970.9
17.5°	936.8	931.8	936.8	931.8	938.0	935.5	938.0	941.9	941.9	945.6	949.4
20°	915.2	910.2	914.0	910.2	917.9	914.0	915.2	920.4	921.6	925.4	929.2
22.5°	888.8	885.0	887.5	883.8	891.4	888.8	890.0	895.1	896.4	898.9	905.2
25°	861.0	853.5	857.2	854.8	862.2	858.5	861.0	866.1	868.6	872.4	877.4
27.5°	820.6	816.9	819.4	819.4	825.6	821.9	823.1	828.2	832.0	835.8	842.1
30°	779.0	772.6	775.1	776.4	781.5	779.0	781.5	786.5	787.8	792.9	797.9
32.5°	725.9	723.4	728.5	725.9	728.5	728.5	729.8	733.5	736.0	738.5	744.9
35°	669.1	664.1	669.1	666.6	672.9	669.1	672.9	676.8	676.8	681.8	685.5
37.5°	607.2	601.0	603.5	603.5	606.0	604.8	604.8	611.0	612.2	616.1	619.9
40°	534.0	531.5	536.5	535.2	536.5	536.5	537.9	541.6	544.1	545.4	546.6
42.5°	468.4	469.6	470.9	470.9	470.9	470.9	470.9	476.0	474.8	478.5	479.8
45°	414.1	409.0	411.6	410.2	414.1	410.2	414.1	417.9	415.4	419.1	416.6
47.5°	358.5	358.5	358.5	357.2	359.8	358.5	361.1	362.4	362.4	362.4	361.1
50°	314.4	310.6	311.9	311.9	313.1	311.9	314.4	315.6	315.6	313.1	308.0
52.5°	271.4	270.1	270.1	272.8	272.8	271.4	271.4	271.4	271.4	267.6	265.1
55°	236.1	233.5	234.9	234.9	234.9	234.9	236.1	234.9	234.9	231.0	227.2
57.5°	204.5	202.0	202.0	202.0	203.2	202.0	202.0	202.0	200.8	197.0	191.9
60°	174.2	173.0	174.2	174.2	175.5	174.2	174.2	174.2	171.8	167.9	162.9
62.5°	149.0	149.0	149.0	150.2	150.2	149.0	149.0	147.8	146.5	141.4	136.4
65°	127.5	126.2	127.5	127.5	128.8	128.8	127.5	126.2	125.0	119.9	114.9
67.5°	106.0	104.8	106.0	106.0	107.2	106.0	106.0	106.0	102.2	99.8	94.6
70°	85.9	84.6	84.6	84.6	85.9	83.4	84.6	84.6	82.0	78.2	73.2
72.5°	65.6	65.6	65.6	65.6	65.6	65.6	64.4	64.4	61.9	58.1	55.5
75°	48.0	48.0	49.2	49.2	48.0	48.0	48.0	46.8	45.5	42.9	40.4
77.5°	35.4	35.4	35.4	35.4	34.1	34.1	34.1	32.9	31.5	30.2	27.8
80°	25.2	25.2	25.2	24.0	25.2	24.0	24.0	24.0	21.5	20.2	18.9
82.5°	17.6	16.4	16.4	16.4	16.4	16.4	16.4	15.1	15.1	13.9	12.6
85°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	8.9	7.6	7.6
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°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4
2.5°	1040.2	1040.2	1042.9	1039.0	1045.4	1041.5	1040.2	1046.6	1042.9	1041.5	1044.1
5°	1031.5	1032.8	1034.0	1031.5	1037.8	1034.0	1034.0	1040.2	1037.8	1036.5	1040.2
7.5°	1020.1	1021.4	1023.9	1022.6	1027.6	1025.1	1026.4	1032.8	1030.2	1030.2	1034.0
10°	1006.2	1008.8	1011.2	1011.2	1017.6	1015.0	1015.0	1022.6	1020.1	1021.4	1026.4
12.5°	989.8	993.6	997.4	998.6	1005.0	1001.1	1002.4	1011.2	1010.0	1011.2	1016.2
15°	972.1	977.1	981.0	981.0	988.5	984.8	988.5	997.4	994.9	999.9	1006.2
17.5°	951.9	957.0	962.0	963.2	970.9	968.4	973.4	982.2	982.2	984.8	992.4
20°	933.0	939.2	941.9	945.6	953.1	951.9	954.5	964.5	964.5	968.4	975.9
22.5°	907.8	914.0	919.1	922.9	929.2	929.2	933.0	941.9	941.9	944.4	951.9
25°	880.0	887.5	891.4	895.1	901.4	900.1	904.0	911.5	912.8	915.2	922.9
27.5°	844.6	850.9	856.0	858.5	867.4	862.2	866.1	874.9	873.6	876.1	882.5
30°	800.4	806.8	811.8	811.8	819.4	819.4	823.1	826.9	826.9	829.5	834.5
32.5°	748.6	756.2	756.2	760.0	765.1	760.0	765.1	770.1	767.6	771.4	775.1
35°	689.4	693.1	694.4	694.4	698.1	696.9	695.6	699.4	696.9	703.2	707.0
37.5°	617.4	622.4	619.9	622.4	621.1	617.4	617.4	623.6	618.6	619.9	623.6
40°	547.9	547.9	546.6	540.4	541.6	537.9	536.5	537.9	532.8	531.5	536.5
42.5°	476.0	474.8	470.9	462.1	463.4	457.0	452.0	452.0	449.5	448.1	449.5
45°	411.6	407.8	401.5	391.4	388.9	383.8	373.8	371.1	367.4	367.4	368.6
47.5°	352.2	347.1	337.1	325.8	319.4	313.1	303.0	299.2	292.9	290.4	292.9
50°	303.0	294.1	281.5	265.1	258.8	251.2	241.1	234.9	228.5	226.0	224.8
52.5°	257.5	244.9	232.2	212.1	207.0	199.5	185.6	179.2	173.0	167.9	167.9
55°	218.4	207.0	189.4	170.4	162.9	155.2	141.4	132.5	126.2	123.8	121.2
57.5°	183.0	170.4	154.0	133.9	126.2	118.6	104.8	96.0	89.6	85.9	83.4
60°	154.0	140.1	123.8	106.0	97.2	89.6	75.8	66.9	60.6	56.8	54.2
62.5°	126.2	114.9	98.5	82.0	74.5	66.9	55.5	46.8	40.4	37.9	34.1
65°	106.0	94.6	79.5	65.6	59.4	51.8	41.6	34.1	29.0	25.2	22.8
67.5°	85.9	77.0	64.4	51.8	45.5	40.4	31.5	25.2	20.2	17.6	16.4
70°	68.1	59.4	49.2	39.1	35.4	30.2	24.0	17.6	15.1	12.6	11.4
72.5°	50.5	44.1	36.6	29.0	25.2	22.8	16.4	13.9	10.1	8.9	7.6
75°	36.6	31.5	26.5	20.2	17.6	16.4	12.6	8.9	7.6	6.2	5.0
77.5°	25.2	22.8	17.6	13.9	12.6	11.4	8.9	6.2	5.0	3.8	3.8
80°	16.4	13.9	11.4	8.9	8.9	7.6	5.0	3.8	3.8	2.5	2.5
82.5°	10.1	8.9	7.6	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°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4
2.5°	1044.1	1044.1	1046.6	1042.9	1045.4	1045.4	1047.9	1042.9	1045.4	1046.6	1049.1
5°	1039.0	1040.2	1042.9	1041.5	1042.9	1042.9	1045.4	1039.0	1044.1	1044.1	1047.9
7.5°	1034.0	1034.0	1036.5	1035.2	1037.8	1039.0	1041.5	1036.5	1041.5	1041.5	1045.4
10°	1027.6	1027.6	1031.5	1030.2	1034.0	1035.2	1039.0	1034.0	1039.0	1040.2	1044.1
12.5°	1018.9	1020.1	1023.9	1023.9	1027.6	1030.2	1034.0	1031.5	1037.8	1039.0	1044.1
15°	1008.8	1011.2	1016.2	1015.0	1018.9	1022.6	1027.6	1023.9	1032.8	1035.2	1040.2
17.5°	996.1	998.6	1002.4	1002.4	1006.2	1008.8	1015.0	1012.5	1020.1	1021.4	1027.6
20°	977.1	981.0	986.0	984.8	988.5	991.0	996.1	993.6	1001.1	1003.6	1010.0
22.5°	954.5	957.0	960.8	960.8	964.5	967.1	972.1	968.4	975.9	977.1	982.2
25°	924.1	926.6	929.2	930.5	934.2	935.5	938.0	935.5	941.9	943.1	949.4
27.5°	885.0	886.2	890.0	890.0	892.6	893.9	897.6	892.6	901.4	901.4	905.2
30°	838.2	837.0	842.1	839.5	842.1	842.1	845.9	843.4	849.6	847.1	850.9
32.5°	776.4	779.0	779.0	776.4	781.5	780.2	780.2	777.8	781.5	782.8	785.2
35°	704.5	708.2	708.2	709.5	710.8	707.0	708.2	700.6	707.0	708.2	709.5
37.5°	626.2	622.4	624.9	621.1	627.5	619.9	619.9	614.9	619.9	619.9	621.1
40°	536.5	535.2	537.9	535.2	534.0	532.8	530.2	526.5	531.5	529.0	532.8
42.5°	452.0	450.8	450.8	448.1	446.9	446.9	444.4	441.9	440.6	440.6	446.9
45°	364.9	367.4	364.9	363.6	366.1	363.6	364.9	359.8	362.4	359.8	362.4
47.5°	291.6	292.9	290.4	287.9	291.6	287.9	287.9	284.0	289.1	289.1	286.6
50°	226.0	224.8	222.2	224.8	223.5	223.5	223.5	219.6	222.2	218.4	220.9
52.5°	166.6	165.4	165.4	164.1	165.4	164.1	164.1	162.9	162.9	161.6	162.9
55°	121.2	119.9	117.4	117.4	117.4	118.6	117.4	116.1	116.1	114.9	116.1
57.5°	82.0	79.5	79.5	79.5	79.5	78.2	78.2	77.0	78.2	77.0	78.2
60°	53.0	53.0	50.5	50.5	50.5	50.5	50.5	49.2	50.5	50.5	50.5
62.5°	32.9	32.9	31.5	30.2	31.5	30.2	30.2	30.2	31.5	30.2	31.5
65°	21.5	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
67.5°	15.1	13.9	13.9	13.9	13.9	13.9	13.9	12.6	13.9	13.9	13.9
70°	10.1	10.1	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
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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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4	1045.4
2.5°	1045.4	1046.6	1044.1	1045.4	1042.9	1045.4	1046.6	1049.1
5°	1042.9	1044.1	1041.5	1044.1	1041.5	1044.1	1045.4	1047.9
7.5°	1040.2	1042.9	1040.2	1042.9	1040.2	1042.9	1044.1	1046.6
10°	1040.2	1044.1	1041.5	1045.4	1041.5	1044.1	1046.6	1047.9
12.5°	1040.2	1044.1	1042.9	1045.4	1044.1	1046.6	1049.1	1051.6
15°	1037.8	1041.5	1039.0	1042.9	1041.5	1042.9	1047.9	1047.9
17.5°	1023.9	1027.6	1027.6	1030.2	1030.2	1034.0	1036.5	1039.0
20°	1006.2	1010.0	1008.8	1012.5	1012.5	1016.2	1018.9	1021.4
22.5°	979.8	984.8	983.5	987.2	986.0	988.5	993.6	992.4
25°	945.6	951.9	950.6	953.1	951.9	951.9	954.5	955.8
27.5°	904.0	907.8	906.5	909.0	906.5	909.0	911.5	912.8
30°	849.6	852.1	850.9	852.1	850.9	853.5	854.8	857.2
32.5°	784.0	787.8	784.0	786.5	785.2	785.2	790.4	787.8
35°	705.8	707.0	708.2	708.2	705.8	707.0	709.5	709.5
37.5°	618.6	624.9	617.4	621.1	619.9	619.9	619.9	623.6
40°	527.8	529.0	526.5	526.5	526.5	525.2	530.2	529.0
42.5°	441.9	443.1	441.9	438.1	439.4	439.4	443.1	438.1
45°	358.5	361.1	359.8	359.8	357.2	357.2	358.5	356.0
47.5°	284.0	286.6	282.8	284.0	281.5	284.0	282.8	285.4
50°	215.9	218.4	217.1	218.4	218.4	215.9	219.6	214.6
52.5°	161.6	162.9	161.6	160.4	159.1	159.1	161.6	160.4
55°	114.9	113.6	113.6	113.6	114.9	114.9	113.6	112.4
57.5°	77.0	77.0	75.8	75.8	77.0	74.5	75.8	74.5
60°	49.2	49.2	49.2	49.2	48.0	49.2	49.2	49.2
62.5°	30.2	30.2	30.2	30.2	30.2	30.2	30.2	30.2
65°	20.2	20.2	20.2	20.2	20.2	20.2	20.2	20.2
67.5°	12.6	13.9	13.9	13.9	12.6	12.6	12.6	12.6
70°	8.9	8.9	8.9	8.9	8.9	8.9	8.9	8.9
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)