

Scaled data based on original data using  
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State  
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: PORTFOLIO

Report Number: P684867

Luminaire Tested: **LX6C15D010 EX6159040 6LCSWLI**

Issue Date: 2/15/2022

**Test Information**

Test Method: LM-79-08  
Report Number: P684867  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252180)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C15D010 EX6159040 6LCSWLI  
Description: 6 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS  
AND 6LCSW TRIM WITH LI FINISH  
Light Source: -  
Ballast/Driver: -

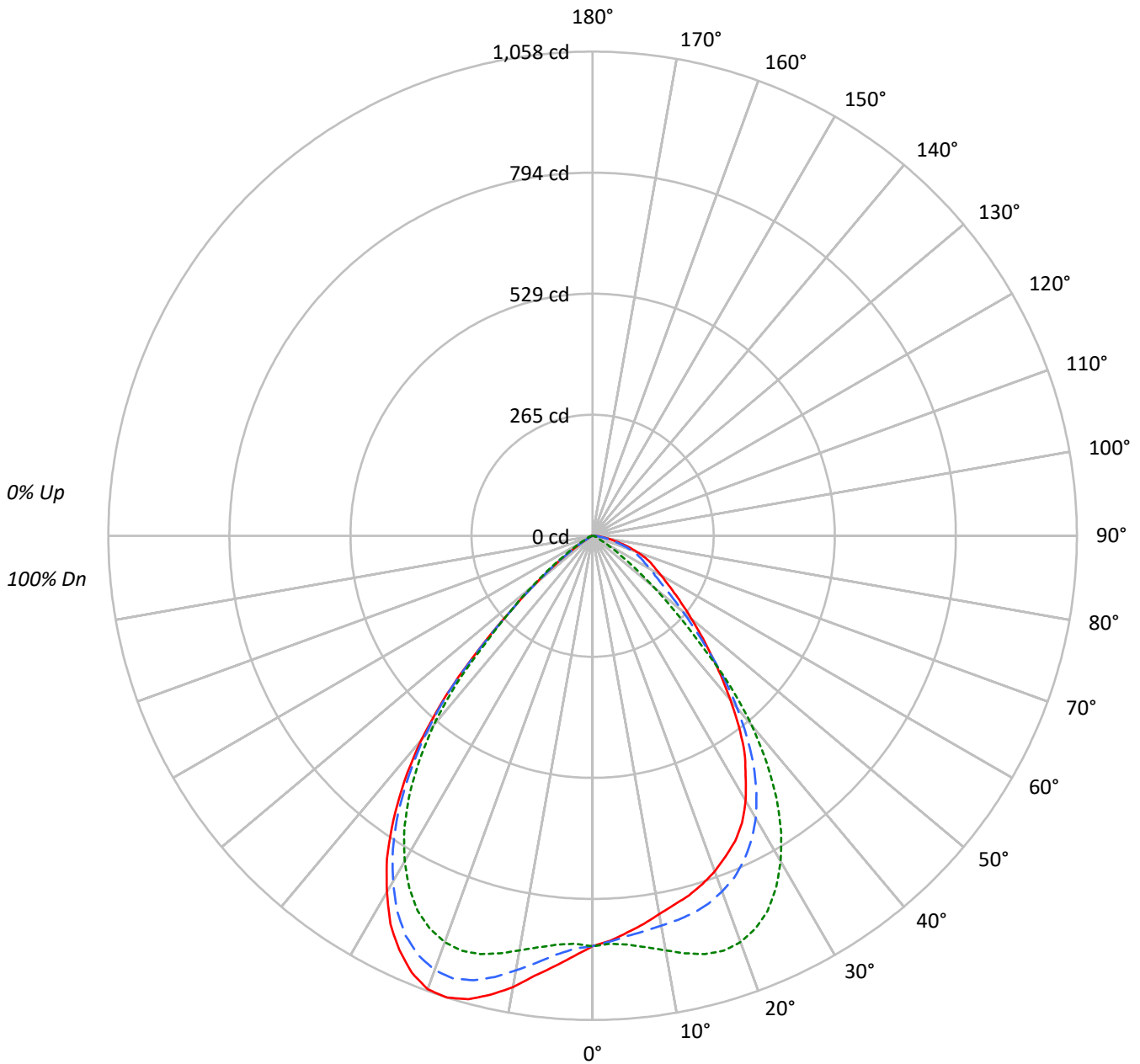
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1639.0 lumens  
Efficiency: N/A  
Efficacy: 103.7 lumens/watt  
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 15.8  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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: P684867

CATALOG NUMBER: LX6C15D010 EX6159040 6LCSWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P684867

CATALOG NUMBER: LX6C15D010 EX6159040 6LCSWLI

**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°	49157	49157	49157
5°	47881	49345	51937
10°	46715	51201	55733
15°	46169	53712	59501
20°	45510	55112	61512
25°	44543	54705	60409
30°	42323	51983	56870
35°	38722	46873	50768
40°	33498	38708	41649
45°	28243	25390	27243
50°	23982	14695	13816
55°	20807	7044	5324
60°	18792	3289	1316
65°	18238	1894	441
70°	16349	1507	417
75°	13429	1101	191
80°	10008	537	0
85°	8617	0	0



TEST NUMBER: P684867

CATALOG NUMBER: LX6C15D010 EX6159040 6LCSWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.6	5.3
10°-20°	264.0	16.1
20°-30°	403.3	24.6
30°-40°	421.8	25.7
40°-50°	273.6	16.7
50°-60°	108.6	6.6
60°-70°	51.5	3.1
70°-80°	24.5	1.5
80°-90°	5.0	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°	753.9	46.0
0°-40°	1175.7	71.7
0°-60°	1558.0	95.1
0°-90°	1639.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1639.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	897	897	897	897	897	
5°	870	878	897	919	944	82
15°	814	853	946	1006	1048	229
25°	736	783	904	965	999	337
35°	579	614	700	742	759	358
45°	364	361	328	347	351	283
55°	218	185	74	57	56	197
65°	141	117	15	3	3	137
75°	63	51	5	2	1	68
85°	14	9	0	0	0	16
90°	0	0	0	0	0	



TEST NUMBER: P684867

CATALOG NUMBER: LX6C15D010 EX6159040 6LCSWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7
2.5°	885.5	887.2	877.8	875.2	882.1	884.6	885.5	882.9	883.8	887.2	887.2
5°	870.1	871.8	863.2	860.6	867.5	869.2	871.8	871.0	873.5	878.7	877.8
7.5°	855.5	858.1	848.7	845.2	853.8	858.1	859.8	859.8	863.2	870.1	871.0
10°	839.2	842.7	834.1	832.4	841.8	846.1	847.0	848.7	853.8	863.2	864.9
12.5°	825.5	828.9	822.9	820.4	830.6	834.9	836.6	840.1	846.1	858.1	859.8
15°	813.5	816.1	809.2	807.5	817.8	822.9	823.8	828.9	836.6	850.4	852.9
17.5°	798.1	799.8	794.7	793.0	803.2	808.4	809.2	815.2	824.7	838.4	842.7
20°	780.1	781.8	776.6	774.9	785.2	791.2	792.1	797.2	808.4	822.9	827.2
22.5°	758.6	762.1	756.1	754.4	764.7	769.8	772.4	776.6	787.8	802.4	808.4
25°	736.4	736.4	732.1	731.2	740.7	746.7	745.8	751.8	762.9	777.5	782.6
27.5°	707.2	706.3	702.1	701.2	711.5	716.7	714.9	720.9	731.2	745.8	750.9
30°	668.6	670.4	664.4	662.6	671.2	679.8	678.9	684.9	695.2	708.9	712.4
32.5°	622.3	624.1	623.2	620.6	628.3	632.6	635.2	639.5	648.1	662.6	666.1
35°	578.6	576.1	572.6	572.6	580.3	587.2	584.6	589.8	598.3	612.9	613.8
37.5°	524.6	523.8	522.1	520.3	528.9	530.6	531.5	534.9	542.6	554.6	552.9
40°	468.1	468.9	468.1	464.6	469.8	476.6	475.8	477.5	484.3	492.9	490.3
42.5°	414.9	414.9	414.9	411.5	417.5	420.9	422.6	421.8	423.5	431.2	427.7
45°	364.3	365.2	364.3	363.5	364.3	366.0	364.3	363.5	363.5	366.0	360.9
47.5°	320.6	320.6	318.0	315.5	318.0	318.9	316.3	313.8	312.9	312.0	303.5
50°	281.2	280.3	279.5	275.2	277.7	278.6	275.2	273.4	270.0	265.7	255.5
52.5°	246.9	246.0	245.2	240.9	242.6	243.4	240.0	236.6	232.3	228.9	216.0
55°	217.7	216.9	216.9	214.3	212.6	214.3	210.9	208.3	202.3	198.0	185.2
57.5°	192.9	192.9	191.2	188.6	189.4	189.4	186.0	182.6	177.4	172.3	162.0
60°	171.4	171.4	171.4	168.9	168.9	168.9	167.2	163.7	159.5	154.3	144.0
62.5°	154.3	154.3	153.4	150.9	151.7	151.7	150.0	146.6	142.3	138.9	128.6
65°	140.6	140.6	140.6	138.0	138.0	138.9	137.2	133.7	130.3	126.0	116.6
67.5°	123.4	122.6	122.6	120.9	121.7	122.6	120.9	118.3	114.0	111.4	102.9
70°	102.0	102.9	103.7	101.2	102.0	102.0	101.2	98.6	96.0	93.4	85.7
72.5°	83.2	83.2	82.3	81.5	81.5	82.3	80.6	78.0	76.3	74.6	68.6
75°	63.4	62.6	63.4	61.7	61.7	61.7	60.0	59.2	58.3	55.7	51.4
77.5°	46.3	45.4	45.4	43.7	44.6	44.6	43.7	42.0	40.3	39.4	36.0
80°	31.7	31.7	31.7	30.9	30.9	30.0	30.0	29.2	27.4	26.6	24.9
82.5°	21.4	21.4	21.4	20.6	20.6	20.6	19.7	18.8	18.0	17.1	15.4
85°	13.7	13.7	13.7	12.9	12.9	12.9	12.0	12.0	11.1	10.3	8.6
87.5°	7.7	7.7	7.7	6.9	6.9	6.9	6.9	6.9	6.0	5.2	4.3
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: P684867

CATALOG NUMBER: LX6C15D010 EX6159040 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7
2.5°	893.2	881.2	888.9	888.9	886.4	893.2	897.5	901.0	900.1	892.4	891.5
5°	886.4	876.1	884.6	885.5	882.9	892.4	898.4	902.7	903.5	896.7	897.5
7.5°	881.2	872.7	883.8	887.2	886.4	895.0	901.8	908.7	912.1	906.9	907.8
10°	878.7	871.8	883.8	888.9	889.8	899.2	909.5	919.0	923.2	919.8	922.4
12.5°	875.2	871.0	884.6	892.4	895.8	905.2	918.1	929.2	936.1	934.4	939.5
15°	871.8	868.4	884.6	895.8	900.1	908.7	923.2	939.5	947.2	946.4	953.2
17.5°	863.2	862.4	879.5	891.5	897.5	907.8	921.5	941.2	949.0	950.7	959.2
20°	849.5	849.5	868.4	881.2	888.1	897.5	914.7	933.5	943.0	944.7	954.1
22.5°	830.6	832.4	850.4	863.2	873.5	880.4	898.4	918.1	926.7	929.2	939.5
25°	805.8	807.5	824.7	837.5	848.7	856.4	873.5	891.5	901.8	904.4	912.1
27.5°	773.2	776.6	793.0	805.8	815.2	820.4	838.4	857.2	864.9	867.5	875.2
30°	735.5	736.4	752.6	763.8	773.2	777.5	793.0	812.7	818.7	821.2	832.4
32.5°	689.2	688.4	703.8	714.1	721.8	726.9	743.2	756.1	762.1	766.4	772.4
35°	633.5	632.6	643.8	655.8	661.8	663.5	679.8	693.5	696.9	700.4	708.1
37.5°	570.9	570.9	580.3	586.4	593.2	595.8	603.5	618.9	624.9	624.1	630.0
40°	504.9	501.5	508.3	514.3	516.1	516.9	524.6	536.6	540.9	540.9	545.2
42.5°	435.5	430.3	431.2	434.6	436.3	430.3	435.5	443.2	440.6	444.0	444.9
45°	361.8	354.0	350.6	342.9	344.6	338.6	335.2	336.9	336.0	327.5	329.2
47.5°	301.7	288.0	282.0	270.9	268.3	261.5	257.2	249.4	242.6	242.6	238.3
50°	251.2	237.5	225.4	212.6	208.3	202.3	192.9	182.6	177.4	172.3	168.0
52.5°	210.9	196.3	181.7	168.0	162.0	154.3	141.4	131.2	121.7	116.6	111.4
55°	178.3	162.0	146.6	132.0	124.3	116.6	103.7	91.7	80.6	73.7	69.4
57.5°	153.4	138.0	121.7	106.3	99.4	90.9	77.2	64.3	54.0	46.3	42.0
60°	135.5	120.0	105.5	89.2	82.3	73.7	59.2	47.1	36.9	30.0	24.9
62.5°	120.0	106.3	90.9	76.3	69.4	60.9	47.1	35.2	25.7	18.8	14.6
65°	108.9	95.1	82.3	67.7	61.7	53.2	40.3	29.2	20.6	14.6	10.3
67.5°	96.0	84.0	71.1	59.2	53.2	46.3	34.3	24.9	17.1	12.0	8.6
70°	80.6	71.1	60.0	48.9	44.6	38.6	28.3	20.6	13.7	9.4	6.9
72.5°	64.3	56.6	48.0	39.4	36.0	30.0	23.1	16.3	10.3	6.9	5.2
75°	48.9	42.9	36.0	30.0	26.6	23.1	17.1	12.0	7.7	5.2	3.4
77.5°	33.4	30.9	25.7	20.6	18.8	16.3	11.1	7.7	5.2	3.4	1.7
80°	23.1	20.6	17.1	13.7	12.0	10.3	6.9	5.2	2.6	1.7	0.9
82.5°	14.6	12.0	10.3	8.6	7.7	6.0	4.3	2.6	1.7	0.9	0.9
85°	7.7	6.9	6.0	4.3	4.3	3.4	2.6	1.7	0.9	0.0	0.0
87.5°	4.3	3.4	2.6	1.7	1.7	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



TEST NUMBER: P684867

CATALOG NUMBER: LX6C15D010 EX6159040 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7
2.5°	901.8	901.8	901.0	911.2	899.2	911.2	905.2	911.2	902.7	901.8	902.7
5°	908.7	911.2	912.1	921.5	910.4	925.0	919.8	925.0	919.0	920.7	923.2
7.5°	922.4	926.7	925.8	937.8	926.7	943.0	939.5	947.2	941.2	943.0	946.4
10°	937.8	943.0	943.8	955.8	945.5	965.2	960.9	969.5	964.4	967.0	971.3
12.5°	955.8	961.8	962.7	976.4	965.2	985.8	983.2	991.8	987.5	990.1	995.3
15°	969.5	978.1	979.8	993.5	981.5	1003.0	1001.2	1012.4	1005.5	1009.8	1014.1
17.5°	976.4	984.1	987.5	1000.4	990.1	1011.5	1009.8	1019.3	1014.1	1018.4	1023.5
20°	972.1	981.5	984.1	997.0	986.7	1008.1	1005.5	1015.0	1009.8	1013.2	1018.4
22.5°	956.7	966.1	969.5	981.5	972.1	991.8	991.0	999.5	992.7	997.0	1001.2
25°	929.2	939.5	941.2	952.4	942.1	962.7	960.9	970.4	965.2	967.8	973.8
27.5°	889.8	901.8	904.4	913.8	906.1	923.2	923.2	930.9	925.0	925.0	930.9
30°	842.7	854.7	856.4	864.1	857.2	872.7	873.5	881.2	871.8	876.9	877.8
32.5°	785.2	793.0	798.1	804.9	794.7	814.4	811.8	817.8	812.7	812.7	817.0
35°	715.8	725.2	727.8	736.4	727.8	743.2	743.2	746.7	741.5	741.5	748.4
37.5°	640.4	647.2	648.1	656.6	649.8	662.6	661.8	664.4	659.2	662.6	662.6
40°	552.0	557.2	558.9	563.2	562.4	571.8	570.9	572.6	570.1	570.9	572.6
42.5°	449.2	456.0	459.5	462.9	457.8	470.6	468.1	470.6	469.8	470.6	473.2
45°	330.9	336.0	338.6	339.5	337.8	345.5	351.4	346.3	347.2	345.5	348.9
47.5°	239.2	240.0	238.3	243.4	239.2	242.6	244.3	245.2	240.0	239.2	242.6
50°	163.7	168.0	162.0	164.6	163.7	167.2	165.4	166.3	161.2	163.7	162.0
52.5°	108.9	108.0	106.3	107.2	105.5	105.5	105.5	107.2	103.7	102.0	100.3
55°	66.0	64.3	60.9	60.0	60.0	60.9	59.2	57.4	57.4	56.6	56.6
57.5°	38.6	36.0	34.3	33.4	31.7	30.9	30.0	30.0	28.3	28.3	28.3
60°	21.4	18.8	17.1	15.4	15.4	14.6	13.7	12.9	12.9	12.9	12.0
62.5°	11.1	9.4	7.7	6.9	6.9	6.0	5.2	5.2	5.2	5.2	4.3
65°	7.7	6.0	5.2	4.3	4.3	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	6.0	5.2	4.3	3.4	3.4	3.4	2.6	2.6	2.6	2.6	2.6
70°	5.2	3.4	3.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	3.4	3.4	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	2.6	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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





TEST NUMBER: P684867

CATALOG NUMBER: LX6C15D010 EX6159040 6LCSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	896.7	896.7	896.7	896.7	896.7	896.7	896.7	896.7
2.5°	910.4	909.5	910.4	912.1	908.7	919.0	913.8	919.0
5°	930.1	930.9	931.8	934.4	930.1	943.0	936.1	943.8
7.5°	955.8	956.7	957.5	960.1	957.5	970.4	962.7	969.5
10°	982.4	984.1	984.1	988.4	985.8	997.8	992.7	1001.2
12.5°	1007.2	1008.9	1010.7	1013.2	1011.5	1024.4	1020.1	1027.0
15°	1027.0	1030.4	1031.2	1034.7	1033.0	1046.7	1041.5	1048.4
17.5°	1036.4	1039.8	1039.8	1044.1	1042.4	1057.0	1050.1	1057.8
20°	1031.2	1033.8	1034.7	1039.0	1037.2	1051.8	1045.0	1054.4
22.5°	1015.0	1015.8	1016.7	1021.0	1020.1	1033.0	1027.0	1033.0
25°	984.9	987.5	986.7	990.1	990.1	1000.4	993.5	998.7
27.5°	942.1	944.7	944.7	949.0	945.5	955.8	949.0	956.7
30°	889.8	892.4	890.7	894.1	890.7	901.0	895.8	898.4
32.5°	827.2	827.2	828.1	828.9	827.2	836.6	831.5	836.6
35°	752.6	754.4	755.2	756.1	754.4	761.2	755.2	758.6
37.5°	668.6	672.9	672.1	672.9	670.4	678.9	673.8	675.5
40°	578.6	578.6	577.8	579.5	576.9	583.8	580.3	582.0
42.5°	474.0	476.6	473.2	477.5	470.6	480.0	476.6	474.0
45°	355.8	352.3	351.4	352.3	349.7	350.6	353.2	351.4
47.5°	242.6	242.6	240.9	238.3	241.7	242.6	239.2	239.2
50°	162.9	162.9	161.2	160.3	162.0	161.2	159.5	162.0
52.5°	103.7	100.3	100.3	102.0	100.3	98.6	101.2	99.4
55°	56.6	54.9	54.9	56.6	54.9	54.9	54.0	55.7
57.5°	27.4	28.3	27.4	27.4	27.4	27.4	26.6	27.4
60°	12.0	12.0	12.0	12.0	12.0	12.0	12.0	12.0
62.5°	5.2	5.2	4.3	4.3	4.3	4.3	4.3	4.3
65°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
67.5°	2.6	2.6	2.6	2.6	2.6	3.4	2.6	2.6
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	2.6	2.6	3.4	3.4	3.4	3.4	3.4	3.4
75°	1.7	1.7	1.7	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)