

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: P684113

Luminaire Tested: **LX6C20D010 EX6C209040 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684113
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C20D010 EX6C209040 6LBLWWH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

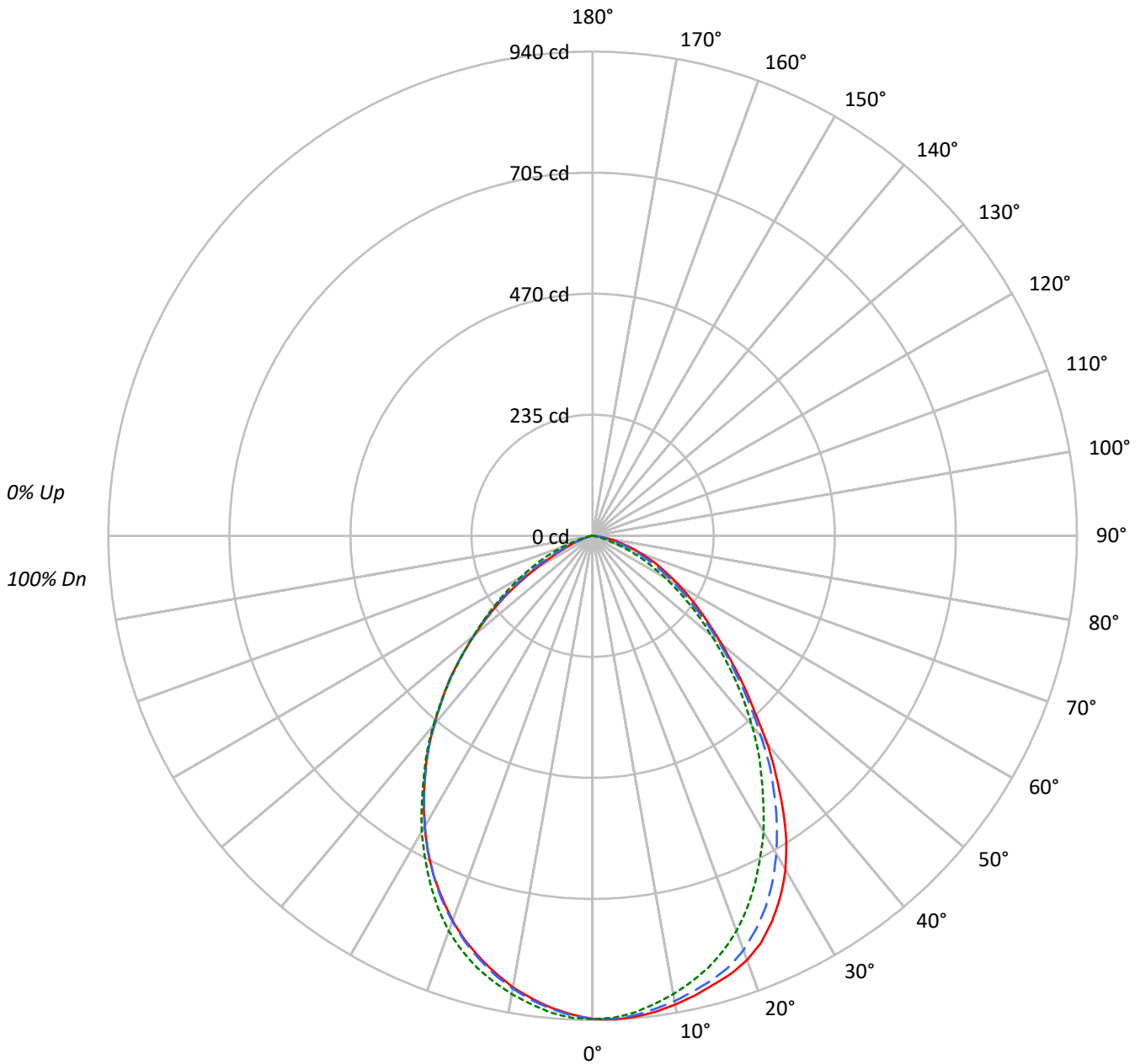
Lumens per Lamp: N/A
Luminaire Lumens: 1706.0 lumens
Efficiency: N/A
Efficacy: 78.3 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V):
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: P684113

CATALOG NUMBER: LX6C20D010 EX6C209040 6LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P684113

CATALOG NUMBER: LX6C20D010 EX6C209040 6LBLWWH

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	51416	51416	51416
5°	51596	51128	50622
10°	51435	50294	49559
15°	51243	49257	48110
20°	51128	47633	46367
25°	49884	45081	44089
30°	47393	41987	41291
35°	43018	38226	37979
40°	37742	34407	34221
45°	32360	30065	30305
50°	27854	25620	25492
55°	24343	21638	20310
60°	21391	17729	13859
65°	18731	13737	8341
70°	15964	9248	4905
75°	12878	4808	2669
80°	8966	1894	1484
85°	3585	566	818



TEST NUMBER: P684113

CATALOG NUMBER: LX6C20D010 EX6C209040 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.9	5.2
10°-20°	245.4	14.4
20°-30°	349.2	20.5
30°-40°	367.6	21.5
40°-50°	306.3	18.0
50°-60°	206.9	12.1
60°-70°	104.9	6.2
70°-80°	33.9	2.0
80°-90°	3.9	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°	682.5	40.0
0°-40°	1050.1	61.6
0°-60°	1563.3	91.6
0°-90°	1706.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1706.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	938	938	938	938	938	
5°	938	935	929	922	920	89
15°	903	893	868	851	848	255
25°	825	795	745	730	729	378
35°	643	615	571	566	568	400
45°	417	407	388	389	391	323
55°	255	242	226	219	212	229
65°	144	130	106	77	64	144
75°	61	48	23	12	13	66
85°	6	3	1	1	1	10
90°	0	0	0	0	0	



TEST NUMBER: P684113

CATALOG NUMBER: LX6C20D010 EX6C209040 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9
2.5°	940.1	940.1	940.1	940.1	940.1	940.1	939.8	939.8	939.2	939.2	938.8
5°	937.6	937.9	937.9	937.6	937.6	936.9	936.9	936.6	935.7	935.1	934.7
7.5°	932.2	932.2	931.9	931.6	931.3	930.3	930.0	929.1	928.4	927.8	926.5
10°	924.0	924.0	923.7	923.1	922.8	922.1	922.1	920.9	919.6	918.0	917.1
12.5°	914.3	914.6	913.9	913.6	912.7	912.4	911.7	910.2	909.2	907.3	905.7
15°	902.9	903.5	903.5	902.3	901.3	901.0	900.1	899.1	896.9	895.0	893.1
17.5°	891.9	892.5	891.9	890.9	890.0	888.7	888.1	886.2	883.4	880.8	878.0
20°	876.4	877.4	876.1	874.5	872.6	872.3	871.4	868.2	864.1	860.3	856.2
22.5°	854.7	854.0	853.1	852.5	849.3	847.4	846.2	842.1	837.6	832.6	827.6
25°	824.7	826.0	824.1	821.2	819.7	817.8	814.6	810.2	806.1	800.8	794.8
27.5°	789.4	789.4	786.9	785.9	782.5	779.9	778.4	774.0	768.6	763.2	756.6
30°	748.7	746.8	746.8	742.4	739.6	738.7	737.1	729.8	725.1	719.4	712.8
32.5°	699.6	699.2	698.0	695.1	691.4	688.2	688.2	683.2	676.9	669.9	665.8
35°	642.8	643.1	642.5	639.3	639.3	635.6	634.9	630.5	625.5	620.1	615.1
37.5°	584.2	585.4	584.2	582.6	581.7	581.3	578.5	575.3	571.6	568.4	564.6
40°	527.4	525.5	526.2	523.0	523.3	522.7	521.4	517.3	515.1	512.0	507.9
42.5°	466.3	468.2	468.8	466.9	466.3	465.0	466.3	464.7	462.2	460.6	456.8
45°	417.4	415.5	416.5	415.8	416.1	413.6	412.7	412.0	411.1	408.3	406.7
47.5°	368.9	369.2	368.9	367.6	367.0	367.0	365.7	363.8	363.8	361.9	360.7
50°	326.6	326.6	327.2	325.7	325.0	323.8	324.1	322.2	320.9	319.4	318.4
52.5°	287.8	288.1	286.9	287.2	286.6	286.6	285.3	284.0	282.8	279.9	279.3
55°	254.7	255.0	253.5	254.1	252.2	251.3	250.6	248.7	248.7	245.9	242.4
57.5°	223.8	223.5	223.2	222.3	221.0	220.1	219.1	216.9	216.0	214.1	211.2
60°	195.1	194.8	194.2	193.9	192.9	190.7	190.7	189.2	186.0	184.1	181.3
62.5°	168.0	168.0	167.7	166.8	165.8	164.9	164.2	163.0	159.8	157.6	155.1
65°	144.4	144.1	143.1	141.6	140.9	140.9	138.7	137.8	135.2	133.0	130.2
67.5°	121.7	120.4	119.8	120.1	118.2	118.2	116.3	114.8	112.5	108.8	106.6
70°	99.6	99.0	98.4	97.7	97.4	96.2	95.2	93.3	91.1	88.3	84.8
72.5°	79.8	79.8	78.8	78.2	77.2	76.0	75.3	73.8	71.2	68.1	65.6
75°	60.8	60.8	60.8	59.6	59.0	58.3	56.4	55.5	52.6	50.8	47.6
77.5°	44.8	44.1	43.2	42.9	42.2	41.6	40.7	39.1	36.6	34.4	32.5
80°	28.4	29.3	28.4	28.4	26.8	26.2	25.9	24.0	23.0	21.1	19.5
82.5°	15.8	16.1	15.4	15.1	14.2	13.9	13.9	12.6	12.0	10.7	9.8
85°	5.7	6.0	5.7	5.7	5.0	5.4	5.0	4.7	4.1	3.5	3.2
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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: P684113

CATALOG NUMBER: LX6C20D010 EX6C209040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9
2.5°	938.8	938.2	938.2	937.9	937.6	937.6	937.6	937.3	936.6	936.6	936.3
5°	934.1	933.5	932.5	931.9	931.6	931.3	931.0	930.6	929.4	929.1	928.1
7.5°	925.6	925.0	923.4	922.8	921.8	921.5	920.2	919.6	918.3	917.1	916.5
10°	915.5	913.9	912.7	911.1	910.5	909.5	907.9	906.1	905.1	903.5	902.3
12.5°	904.2	902.3	899.7	897.9	897.2	895.6	893.1	891.6	889.3	886.8	884.6
15°	890.0	887.8	885.6	882.1	881.1	879.3	876.7	873.6	870.4	867.9	865.4
17.5°	874.5	871.1	867.6	863.8	861.0	860.0	855.9	851.5	848.7	844.3	841.4
20°	852.8	848.0	842.4	838.6	836.1	833.2	828.5	823.8	820.3	816.5	812.4
22.5°	822.8	818.4	811.8	806.1	804.2	800.1	796.0	791.6	787.2	783.1	778.1
25°	787.5	782.8	776.2	770.5	767.3	765.4	757.6	753.2	748.7	745.3	741.8
27.5°	751.3	742.7	738.3	729.5	726.7	726.0	718.8	714.1	709.3	704.6	700.2
30°	706.5	699.9	693.3	686.9	683.2	681.0	675.6	669.6	666.5	663.3	658.9
32.5°	660.2	654.2	646.0	640.0	637.1	634.0	629.3	625.2	620.4	617.0	616.0
35°	610.7	604.0	597.1	592.7	592.1	588.3	583.5	580.1	576.6	571.2	570.3
37.5°	557.7	553.9	549.2	542.9	540.0	540.0	535.3	532.8	528.4	528.1	525.5
40°	505.7	504.1	496.8	495.0	494.3	489.9	488.7	484.2	481.1	480.8	477.0
42.5°	454.3	450.2	448.9	445.8	442.9	442.3	439.5	437.6	436.3	434.4	432.5
45°	403.2	402.3	399.1	396.9	396.0	394.7	393.8	390.0	389.3	387.8	386.8
47.5°	359.1	356.6	353.7	351.2	350.9	349.0	346.8	346.8	343.3	343.0	342.4
50°	315.3	313.4	311.8	308.3	309.0	306.4	306.1	303.3	301.7	300.4	302.0
52.5°	276.8	273.0	272.4	269.5	268.6	268.9	265.4	264.5	263.9	262.6	262.0
55°	240.2	238.3	235.8	233.9	232.3	230.8	229.5	229.5	226.0	226.4	224.8
57.5°	208.1	206.5	203.3	200.5	199.9	198.0	196.4	194.8	194.5	192.3	190.7
60°	179.4	176.5	172.4	171.2	169.3	167.7	166.1	164.2	163.3	161.7	158.9
62.5°	152.6	147.9	146.3	143.8	141.6	140.6	138.1	135.9	134.3	132.1	129.9
65°	127.0	123.6	120.7	117.9	117.6	115.1	112.9	111.0	107.8	105.9	101.8
67.5°	103.7	100.6	97.4	94.6	92.4	91.7	88.3	86.1	83.9	80.1	76.6
70°	82.3	79.1	76.6	73.1	72.2	69.7	67.2	64.9	61.2	57.7	54.9
72.5°	62.7	59.3	56.4	53.9	52.3	50.1	47.6	45.1	41.3	37.8	35.3
75°	44.8	42.2	39.4	36.9	35.6	34.4	31.5	28.7	26.2	22.7	20.5
77.5°	30.3	27.7	25.2	23.0	21.4	20.5	18.6	16.4	14.2	12.3	10.7
80°	17.7	16.1	14.2	12.3	12.0	11.0	9.5	8.2	6.9	6.0	4.7
82.5°	8.5	7.6	6.3	5.4	4.7	4.4	3.8	3.2	2.5	2.2	2.2
85°	2.5	2.2	1.9	1.6	1.3	1.3	0.9	0.9	0.9	0.9	0.9
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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: P684113

CATALOG NUMBER: LX6C20D010 EX6C209040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9
2.5°	935.4	935.1	934.7	934.4	933.8	933.8	932.9	932.2	932.2	931.6	931.3
5°	927.2	926.2	925.9	925.3	924.7	924.3	923.1	922.8	922.1	921.5	921.5
7.5°	915.5	914.3	913.0	912.4	912.0	911.1	910.5	910.2	909.2	908.6	907.3
10°	900.1	899.1	897.5	896.9	896.3	895.6	894.1	893.1	892.8	892.2	891.6
12.5°	882.1	880.8	879.3	878.0	877.4	876.4	874.8	873.9	873.9	872.6	872.6
15°	862.9	861.0	858.1	856.9	856.6	854.7	853.4	852.1	850.6	849.9	849.9
17.5°	838.3	835.1	832.6	832.6	831.3	829.4	827.6	826.6	825.7	824.4	823.8
20°	809.3	807.1	804.2	804.2	801.4	800.8	798.9	798.6	796.3	796.7	795.7
22.5°	774.3	773.0	771.4	770.2	768.6	766.7	765.8	766.1	765.1	764.8	764.5
25°	739.0	735.5	733.6	733.0	732.3	730.8	730.1	729.8	729.8	728.9	729.2
27.5°	698.3	695.8	693.3	694.2	692.9	692.0	691.4	690.4	691.0	690.7	691.0
30°	656.7	653.5	652.0	652.6	652.3	649.7	651.0	650.7	651.0	651.0	651.6
32.5°	612.9	610.7	610.3	610.7	607.8	608.1	606.9	608.8	609.1	611.0	609.4
35°	568.4	567.2	564.9	564.6	564.9	564.6	564.6	565.9	565.6	567.5	566.8
37.5°	522.7	522.1	519.9	520.5	519.2	521.4	522.1	521.4	523.6	523.0	522.7
40°	477.9	477.0	475.7	478.2	476.7	475.4	477.6	475.7	476.4	478.2	478.2
42.5°	432.5	431.0	431.0	431.0	430.6	430.6	431.6	432.5	431.9	432.2	434.7
45°	386.8	386.5	385.6	386.2	385.9	387.5	387.5	388.1	389.3	390.6	390.0
47.5°	342.7	342.1	343.0	342.4	342.7	341.7	342.4	344.3	345.8	343.6	345.8
50°	301.4	300.1	299.8	300.8	300.4	300.1	300.8	300.8	300.1	300.1	302.3
52.5°	262.0	260.7	259.8	261.3	260.4	260.7	259.5	259.5	260.1	259.5	258.5
55°	225.1	224.1	222.9	223.5	221.9	221.6	220.4	220.4	219.4	218.8	216.9
57.5°	189.8	189.2	186.3	186.0	186.3	184.1	181.9	181.0	178.4	177.8	177.5
60°	158.6	155.1	153.5	151.6	150.4	149.4	146.9	145.3	141.6	139.3	139.0
62.5°	126.1	124.5	122.6	119.8	119.2	116.0	113.5	109.4	107.5	104.7	101.8
65°	99.9	95.8	93.0	91.4	88.9	86.1	83.2	78.8	76.6	73.1	70.3
67.5°	73.1	69.7	65.9	64.6	62.4	59.0	56.1	52.3	50.4	47.3	46.3
70°	50.1	47.0	44.1	42.2	40.7	37.2	34.4	33.1	31.2	30.6	30.6
72.5°	32.2	29.3	26.2	25.2	24.0	22.1	20.2	19.5	20.2	19.9	19.9
75°	18.0	16.4	14.2	13.2	13.2	12.6	12.3	12.3	12.3	12.3	12.3
77.5°	9.1	8.2	7.6	7.3	7.3	7.3	7.6	7.6	7.6	7.9	7.6
80°	4.4	4.1	4.1	4.1	4.4	4.4	4.4	4.4	4.4	4.7	4.4
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5
85°	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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: P684113

CATALOG NUMBER: LX6C20D010 EX6C209040 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	937.9	937.9	937.9	937.9	937.9	937.9	937.9	937.9
2.5°	931.0	930.3	930.3	930.0	930.0	930.0	930.0	930.3
5°	920.9	920.6	920.6	919.9	919.9	919.9	919.9	919.9
7.5°	907.3	906.7	907.0	906.4	906.4	906.7	906.4	906.1
10°	890.6	890.3	890.6	890.6	890.0	889.7	890.0	890.3
12.5°	871.7	871.4	870.7	871.1	871.1	870.7	870.4	869.8
15°	849.6	849.3	849.0	848.7	848.4	848.7	848.4	847.7
17.5°	823.8	823.8	823.5	823.1	822.8	822.2	822.5	823.5
20°	796.0	795.7	795.1	795.4	794.1	793.5	793.8	794.8
22.5°	764.2	763.2	763.9	762.9	762.9	763.2	762.9	762.3
25°	729.5	728.2	728.9	729.2	729.2	728.9	728.6	728.9
27.5°	691.0	692.0	692.0	691.4	692.3	691.0	691.7	692.0
30°	651.6	650.7	650.4	651.6	653.5	652.0	652.0	652.3
32.5°	611.0	609.7	609.7	610.3	610.0	610.0	611.3	609.7
35°	567.5	568.1	565.6	567.2	567.8	567.2	567.5	567.5
37.5°	523.6	523.0	523.0	523.0	524.0	524.0	524.6	524.3
40°	480.5	479.2	478.9	479.5	478.2	479.2	479.2	478.2
42.5°	433.8	434.1	435.7	434.1	434.4	434.1	433.5	433.2
45°	390.6	391.6	390.9	390.6	390.9	389.7	390.0	390.9
47.5°	344.9	346.8	344.9	346.2	345.8	345.2	344.6	343.3
50°	302.0	302.6	302.3	302.0	301.7	301.4	299.8	298.9
52.5°	258.2	258.2	258.2	258.2	255.0	256.6	256.0	254.1
55°	215.3	216.3	215.0	215.0	212.8	212.8	212.2	212.5
57.5°	174.0	173.1	172.1	172.1	169.9	169.0	168.0	166.8
60°	135.6	134.6	133.4	131.8	129.6	129.6	128.9	126.4
62.5°	99.3	97.7	96.8	95.5	93.6	92.4	91.4	92.1
65°	68.1	66.5	65.3	65.3	65.3	64.6	64.3	64.3
67.5°	44.8	45.7	45.1	45.7	45.7	45.1	44.8	45.4
70°	30.9	30.9	30.6	30.6	30.6	30.6	30.3	30.6
72.5°	19.9	19.9	19.9	20.2	19.9	19.9	20.2	20.2
75°	12.6	12.6	12.6	12.9	12.6	12.6	12.9	12.6
77.5°	7.6	7.9	7.9	7.9	7.9	7.6	7.9	7.9
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)