

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: P563954

Luminaire Tested: **LX6C05D010 EX6C059030 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P563954
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: LX6C05D010 EX6C059030 6LBLWWH
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

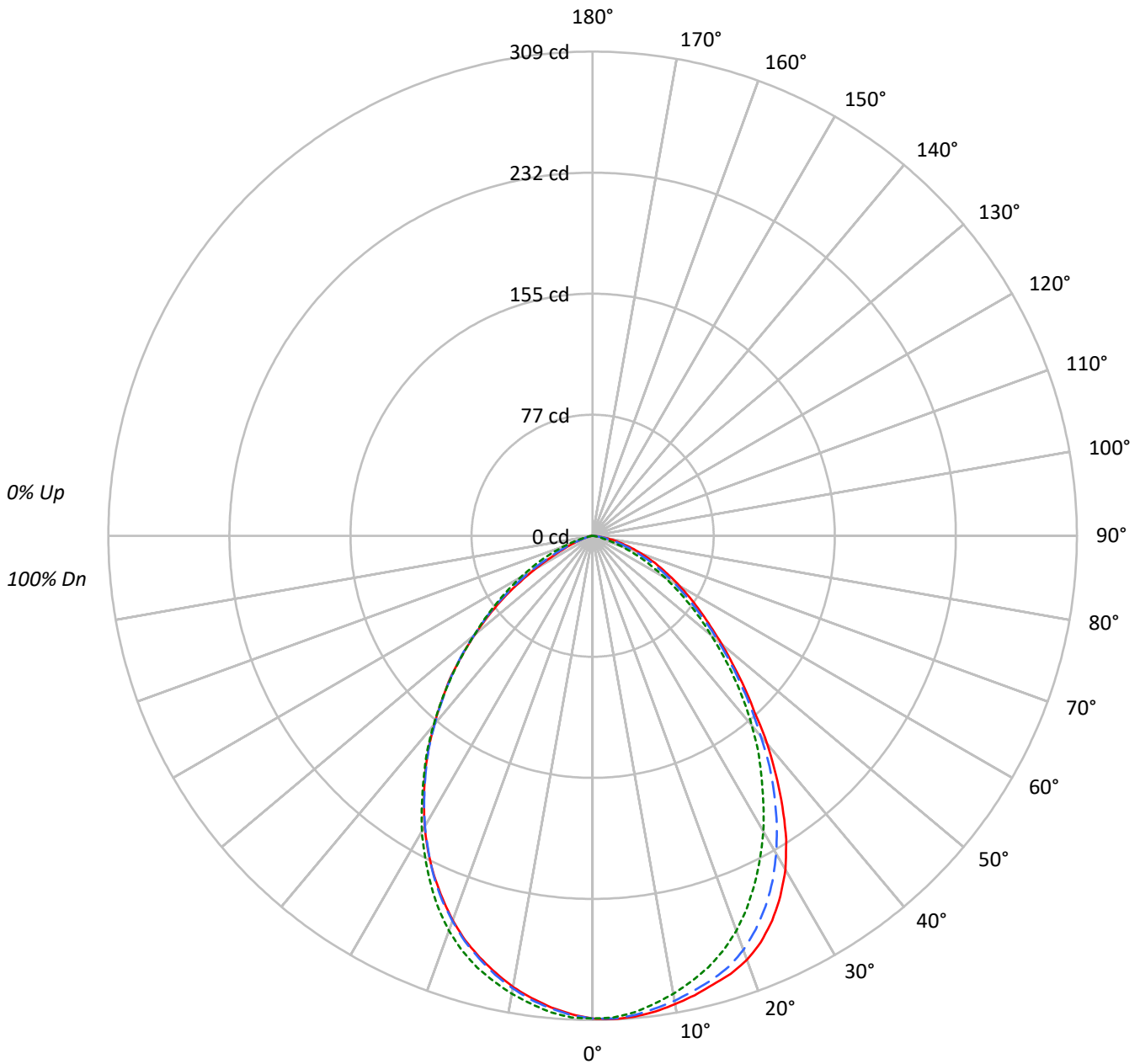
Lumens per Lamp: N/A
Luminaire Lumens: 560.5 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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: P563954

CATALOG NUMBER: LX6C05D010 EX6C059030 6LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P563954

CATALOG NUMBER: LX6C05D010 EX6C059030 6LBLWWH

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				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°	16890	16890	16890
5°	16949	16801	16630
10°	16895	16522	16277
15°	16833	16181	15806
20°	16801	15646	15232
25°	16392	14807	14481
30°	15572	13793	13565
35°	14134	12561	12481
40°	12395	11307	11250
45°	10629	9877	9962
50°	9151	8418	8375
55°	8000	7111	6671
60°	7028	5822	4550
65°	6149	4514	2750
70°	5257	3029	1619
75°	4236	1567	890
80°	2968	600	474
85°	1132	189	252



TEST NUMBER: P563954

CATALOG NUMBER: LX6C05D010 EX6C059030 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	28.9	5.2
10°-20°	80.6	14.4
20°-30°	114.7	20.5
30°-40°	120.8	21.5
40°-50°	100.6	18.0
50°-60°	68.0	12.1
60°-70°	34.5	6.2
70°-80°	11.1	2.0
80°-90°	1.3	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°	224.2	40.0
0°-40°	345.0	61.6
0°-60°	513.6	91.6
0°-90°	560.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	560.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	308	308	308	308	308	
5°	308	307	305	303	302	29
15°	297	294	285	279	278	84
25°	271	261	245	240	239	124
35°	211	202	188	186	186	131
45°	137	134	127	128	128	106
55°	84	80	74	72	70	75
65°	47	43	35	25	21	47
75°	20	16	7	4	4	22
85°	2	1	0	0	0	3
90°	0	0	0	0	0	



TEST NUMBER: P563954

CATALOG NUMBER: LX6C05D010 EX6C059030 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	308.8	308.8	308.8	308.8	308.8	308.8	308.7	308.7	308.5	308.5	308.4
5°	308.0	308.1	308.1	308.0	308.0	307.8	307.8	307.7	307.4	307.2	307.1
7.5°	306.3	306.3	306.2	306.1	306.0	305.7	305.6	305.3	305.1	304.9	304.4
10°	303.5	303.5	303.4	303.2	303.1	302.9	302.9	302.5	302.1	301.6	301.3
12.5°	300.4	300.5	300.3	300.2	299.9	299.8	299.6	299.1	298.8	298.0	297.5
15°	296.6	296.8	296.8	296.4	296.1	296.0	295.7	295.4	294.7	294.1	293.5
17.5°	293.1	293.3	293.1	292.6	292.3	291.9	291.7	291.1	290.2	289.4	288.5
20°	288.0	288.3	287.9	287.4	286.6	286.5	286.2	285.2	283.9	282.7	281.3
22.5°	280.7	280.5	280.2	280.0	279.0	278.4	278.0	276.7	275.2	273.5	271.9
25°	271.0	271.4	270.8	269.8	269.3	268.6	267.6	266.2	264.9	263.0	261.1
27.5°	259.4	259.4	258.5	258.2	257.0	256.2	255.7	254.3	252.5	250.7	248.6
30°	246.0	245.3	245.3	243.9	243.0	242.7	242.2	239.8	238.2	236.4	234.2
32.5°	229.8	229.7	229.3	228.4	227.1	226.1	226.1	224.4	222.4	220.1	218.7
35°	211.2	211.3	211.1	210.1	210.1	208.8	208.6	207.1	205.5	203.7	202.1
37.5°	191.9	192.4	191.9	191.4	191.1	191.0	190.0	189.0	187.8	186.8	185.5
40°	173.2	172.6	172.8	171.8	171.9	171.7	171.3	170.0	169.3	168.2	166.8
42.5°	153.2	153.8	154.0	153.4	153.2	152.8	153.2	152.7	151.9	151.4	150.0
45°	137.1	136.5	136.8	136.6	136.7	135.9	135.6	135.4	135.1	134.2	133.6
47.5°	121.1	121.3	121.1	120.7	120.5	120.5	120.1	119.5	119.5	118.9	118.5
50°	107.3	107.3	107.5	107.0	106.8	106.4	106.5	105.9	105.5	104.9	104.6
52.5°	94.6	94.7	94.3	94.4	94.2	94.2	93.7	93.3	92.9	92.0	91.8
55°	83.7	83.8	83.3	83.5	82.9	82.6	82.3	81.7	81.7	80.8	79.6
57.5°	73.5	73.4	73.3	73.0	72.6	72.3	72.0	71.3	70.9	70.3	69.4
60°	64.1	64.0	63.8	63.7	63.4	62.7	62.7	62.2	61.1	60.5	59.5
62.5°	55.2	55.2	55.1	54.8	54.5	54.2	53.9	53.5	52.5	51.8	51.0
65°	47.4	47.3	47.0	46.5	46.3	46.3	45.6	45.3	44.5	43.7	42.8
67.5°	40.0	39.6	39.4	39.5	38.9	38.9	38.2	37.7	37.0	35.7	35.0
70°	32.8	32.6	32.3	32.1	32.0	31.6	31.3	30.6	29.9	29.0	27.9
72.5°	26.2	26.2	25.9	25.7	25.3	24.9	24.7	24.2	23.4	22.4	21.6
75°	20.0	20.0	20.0	19.5	19.3	19.1	18.5	18.2	17.3	16.7	15.7
77.5°	14.7	14.5	14.1	14.0	13.8	13.6	13.3	12.8	12.0	11.3	10.7
80°	9.4	9.7	9.4	9.4	8.8	8.6	8.4	7.8	7.5	6.9	6.4
82.5°	5.2	5.3	5.1	5.0	4.7	4.6	4.6	4.2	4.0	3.6	3.3
85°	1.8	1.9	1.8	1.8	1.6	1.7	1.6	1.5	1.3	1.1	1.0
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P563954

CATALOG NUMBER: LX6C05D010 EX6C059030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	308.4	308.2	308.2	308.1	308.0	308.0	308.0	307.9	307.7	307.7	307.6
5°	306.9	306.7	306.4	306.2	306.1	306.0	305.9	305.8	305.4	305.3	305.0
7.5°	304.0	303.8	303.3	303.1	302.8	302.7	302.3	302.1	301.7	301.3	301.1
10°	300.8	300.3	299.9	299.4	299.2	298.9	298.2	297.6	297.3	296.8	296.4
12.5°	297.0	296.4	295.6	295.0	294.8	294.3	293.5	293.0	292.1	291.3	290.6
15°	292.3	291.6	290.9	289.8	289.5	288.9	288.1	287.0	285.9	285.1	284.3
17.5°	287.4	286.1	285.0	283.8	282.9	282.6	281.2	279.7	278.8	277.4	276.5
20°	280.1	278.6	276.8	275.5	274.6	273.7	272.2	270.7	269.5	268.2	266.9
22.5°	270.4	268.8	266.7	264.9	264.2	262.8	261.5	260.1	258.6	257.2	255.6
25°	258.8	257.1	255.0	253.2	252.1	251.5	248.9	247.5	246.0	244.8	243.7
27.5°	246.8	244.0	242.6	239.7	238.7	238.5	236.2	234.6	233.0	231.5	230.0
30°	232.1	229.9	227.8	225.7	224.4	223.7	222.0	220.0	219.0	217.9	216.5
32.5°	216.9	214.9	212.2	210.3	209.3	208.3	206.7	205.4	203.8	202.7	202.4
35°	200.6	198.5	196.1	194.7	194.5	193.3	191.7	190.6	189.4	187.7	187.4
37.5°	183.2	182.0	180.5	178.3	177.4	177.4	175.9	175.1	173.6	173.5	172.6
40°	166.1	165.6	163.3	162.7	162.4	160.9	160.5	159.1	158.1	158.0	156.8
42.5°	149.2	147.9	147.5	146.5	145.6	145.4	144.3	143.7	143.3	142.7	142.1
45°	132.4	132.1	131.1	130.4	130.1	129.7	129.4	128.2	127.9	127.4	127.0
47.5°	118.0	117.2	116.2	115.4	115.2	114.6	113.9	113.9	112.8	112.7	112.5
50°	103.6	102.9	102.4	101.3	101.5	100.7	100.6	99.7	99.1	98.7	99.2
52.5°	90.9	89.7	89.5	88.6	88.3	88.4	87.2	86.9	86.7	86.3	86.1
55°	78.9	78.3	77.5	76.9	76.3	75.8	75.4	75.4	74.3	74.4	73.8
57.5°	68.4	67.8	66.8	65.9	65.7	65.0	64.5	64.0	63.9	63.2	62.7
60°	58.9	58.0	56.7	56.3	55.6	55.1	54.6	53.9	53.6	53.1	52.2
62.5°	50.1	48.6	48.0	47.2	46.5	46.2	45.4	44.7	44.1	43.4	42.7
65°	41.7	40.6	39.7	38.8	38.7	37.8	37.1	36.4	35.4	34.8	33.5
67.5°	34.1	33.1	32.0	31.0	30.3	30.1	29.0	28.3	27.6	26.3	25.1
70°	27.1	26.0	25.1	24.0	23.7	22.9	22.1	21.4	20.1	18.9	18.0
72.5°	20.6	19.4	18.5	17.7	17.2	16.5	15.7	14.9	13.5	12.4	11.6
75°	14.7	13.8	12.9	12.1	11.7	11.3	10.4	9.5	8.6	7.4	6.7
77.5°	10.0	9.2	8.2	7.5	7.0	6.7	6.1	5.4	4.7	4.1	3.6
80°	5.8	5.3	4.7	4.1	4.0	3.7	3.2	2.6	2.2	1.9	1.5
82.5°	2.7	2.4	2.0	1.7	1.5	1.4	1.2	1.0	0.8	0.7	0.7
85°	0.8	0.7	0.6	0.5	0.4	0.4	0.3	0.3	0.3	0.3	0.3
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P563954

CATALOG NUMBER: LX6C05D010 EX6C059030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	307.3	307.2	307.1	307.0	306.8	306.8	306.5	306.3	306.3	306.1	306.0
5°	304.7	304.3	304.1	303.9	303.7	303.6	303.2	303.1	302.9	302.7	302.7
7.5°	300.8	300.4	300.0	299.8	299.7	299.4	299.2	299.1	298.8	298.4	298.0
10°	295.7	295.4	294.9	294.7	294.5	294.3	293.8	293.5	293.4	293.2	293.0
12.5°	289.8	289.4	288.9	288.5	288.3	288.0	287.5	287.1	287.1	286.6	286.6
15°	283.5	282.9	282.0	281.6	281.4	280.7	280.3	279.9	279.4	279.2	279.2
17.5°	275.4	274.3	273.5	273.5	273.1	272.5	271.9	271.6	271.3	270.9	270.7
20°	265.9	265.2	264.2	264.2	263.3	263.0	262.4	262.3	261.6	261.7	261.4
22.5°	254.4	254.0	253.5	253.1	252.5	251.9	251.6	251.7	251.4	251.2	251.1
25°	242.8	241.6	241.0	240.8	240.6	240.1	239.9	239.8	239.8	239.4	239.6
27.5°	229.4	228.6	227.8	228.1	227.6	227.3	227.1	226.8	227.0	226.9	227.0
30°	215.7	214.7	214.2	214.4	214.3	213.5	213.9	213.8	213.9	213.9	214.1
32.5°	201.3	200.6	200.5	200.6	199.7	199.8	199.4	200.0	200.1	200.7	200.2
35°	186.8	186.4	185.6	185.5	185.6	185.5	185.5	185.9	185.8	186.5	186.2
37.5°	171.7	171.5	170.8	171.0	170.6	171.3	171.5	171.3	172.0	171.8	171.7
40°	157.1	156.8	156.2	157.2	156.6	156.1	157.0	156.2	156.5	157.2	157.2
42.5°	142.1	141.6	141.6	141.6	141.5	141.5	141.8	142.1	141.9	142.0	142.8
45°	127.0	126.9	126.6	126.8	126.7	127.3	127.3	127.5	127.9	128.4	128.2
47.5°	112.6	112.4	112.7	112.5	112.6	112.3	112.5	113.1	113.6	112.9	113.6
50°	99.0	98.6	98.5	98.8	98.7	98.6	98.8	98.8	98.6	98.6	99.3
52.5°	86.1	85.6	85.3	85.9	85.5	85.6	85.2	85.2	85.4	85.2	84.9
55°	74.0	73.6	73.2	73.4	72.9	72.8	72.4	72.4	72.1	71.9	71.3
57.5°	62.4	62.2	61.2	61.1	61.2	60.5	59.8	59.4	58.6	58.4	58.3
60°	52.1	51.0	50.5	49.8	49.4	49.1	48.2	47.7	46.5	45.8	45.7
62.5°	41.4	40.9	40.3	39.4	39.2	38.1	37.3	35.9	35.3	34.4	33.5
65°	32.9	31.5	30.5	30.0	29.2	28.3	27.4	25.9	25.1	24.0	23.1
67.5°	24.0	22.9	21.7	21.3	20.5	19.3	18.4	17.2	16.6	15.6	15.3
70°	16.5	15.5	14.5	13.8	13.3	12.2	11.3	10.9	10.3	10.1	10.1
72.5°	10.6	9.7	8.6	8.2	7.8	7.2	6.6	6.4	6.6	6.5	6.5
75°	5.9	5.4	4.7	4.4	4.4	4.2	4.1	4.1	4.1	4.1	4.1
77.5°	3.1	2.6	2.4	2.3	2.3	2.3	2.4	2.4	2.4	2.5	2.4
80°	1.4	1.3	1.3	1.3	1.4	1.4	1.4	1.4	1.4	1.5	1.4
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.8	0.8	0.8	0.8	0.8
85°	0.3	0.3	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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: P563954

CATALOG NUMBER: LX6C05D010 EX6C059030 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	308.1	308.1	308.1	308.1	308.1	308.1	308.1	308.1
2.5°	305.9	305.7	305.7	305.6	305.6	305.6	305.6	305.7
5°	302.5	302.4	302.4	302.2	302.2	302.2	302.2	302.2
7.5°	298.0	297.8	297.9	297.7	297.7	297.8	297.7	297.6
10°	292.5	292.4	292.5	292.5	292.3	292.2	292.3	292.4
12.5°	286.3	286.2	286.0	286.1	286.1	286.0	285.9	285.7
15°	279.1	279.0	278.9	278.8	278.7	278.8	278.7	278.5
17.5°	270.7	270.7	270.6	270.5	270.4	270.2	270.3	270.6
20°	261.5	261.4	261.2	261.3	260.9	260.7	260.8	261.1
22.5°	251.0	250.7	250.9	250.6	250.6	250.7	250.6	250.4
25°	239.7	239.2	239.4	239.6	239.6	239.4	239.3	239.4
27.5°	227.0	227.3	227.3	227.1	227.4	227.0	227.2	227.3
30°	214.1	213.8	213.7	214.1	214.7	214.2	214.2	214.3
32.5°	200.7	200.3	200.3	200.5	200.4	200.4	200.8	200.3
35°	186.5	186.7	185.8	186.4	186.6	186.4	186.5	186.5
37.5°	172.0	171.8	171.8	171.8	172.1	172.1	172.3	172.2
40°	157.9	157.5	157.4	157.6	157.2	157.5	157.5	157.2
42.5°	142.5	142.6	143.1	142.6	142.7	142.6	142.4	142.3
45°	128.4	128.7	128.5	128.4	128.5	128.1	128.2	128.5
47.5°	113.3	113.9	113.3	113.7	113.6	113.4	113.2	112.8
50°	99.2	99.4	99.3	99.2	99.1	99.0	98.5	98.2
52.5°	84.8	84.8	84.8	84.8	83.8	84.3	84.1	83.5
55°	70.7	71.0	70.6	70.6	69.9	69.9	69.7	69.8
57.5°	57.2	56.9	56.6	56.6	55.8	55.5	55.2	54.8
60°	44.6	44.2	43.8	43.3	42.5	42.5	42.3	41.5
62.5°	32.7	32.1	31.8	31.4	30.7	30.3	30.0	30.2
65°	22.4	21.9	21.5	21.5	21.5	21.3	21.2	21.2
67.5°	14.7	15.1	14.9	15.1	15.1	14.9	14.7	15.0
70°	10.2	10.2	10.1	10.1	10.1	10.1	10.0	10.1
72.5°	6.5	6.5	6.5	6.6	6.5	6.5	6.6	6.6
75°	4.2	4.2	4.2	4.3	4.2	4.2	4.3	4.2
77.5°	2.4	2.5	2.5	2.5	2.5	2.4	2.5	2.5
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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)