

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: P856743

Luminaire Tested: **LX4C10D010 EX4C109035 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P856743
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C10D010 EX4C109035 4LBLWWH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

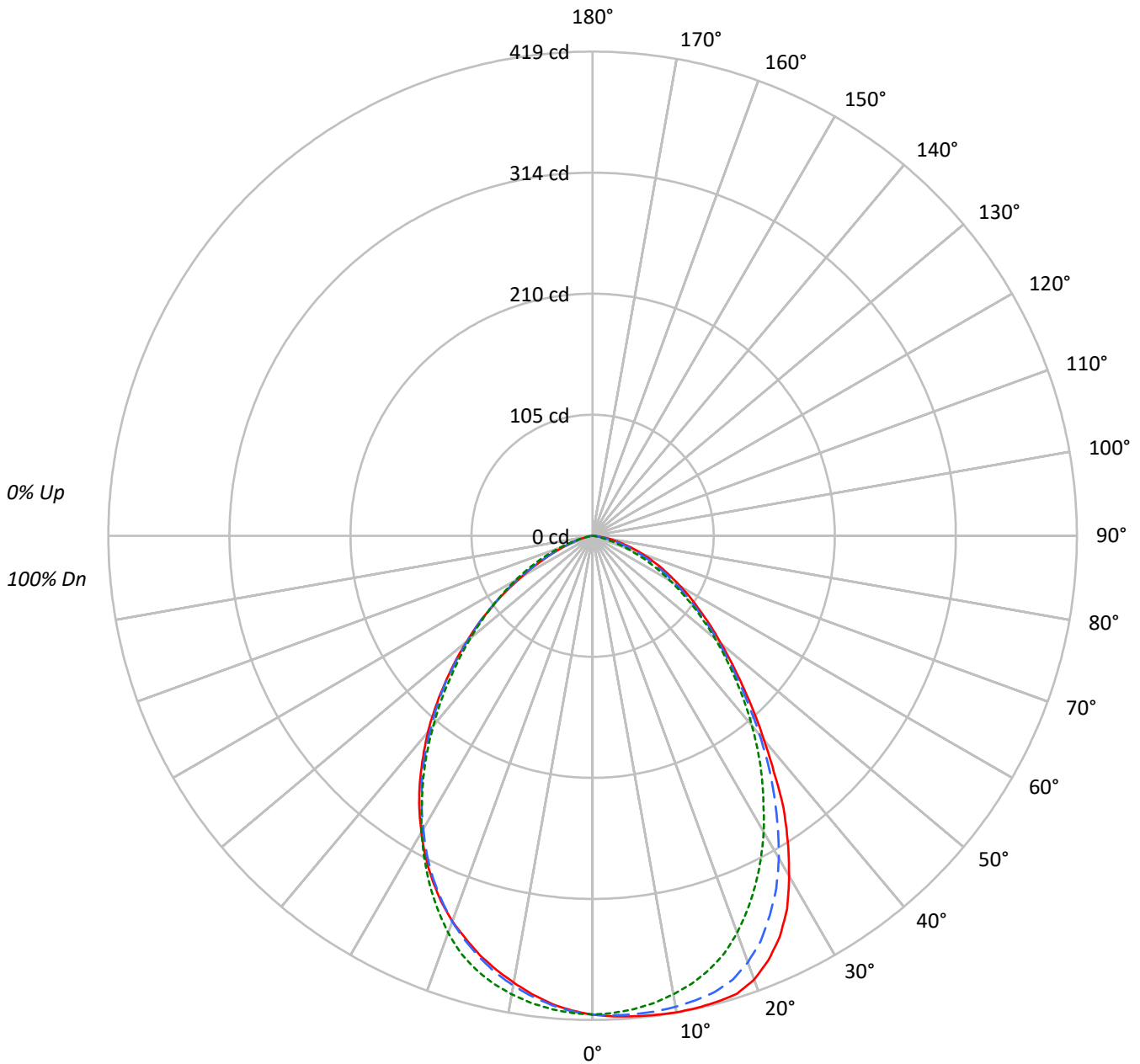
Lumens per Lamp: N/A
Luminaire Lumens: 781.0 lumens
Efficiency: N/A
Efficacy: 79.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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: P856743

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P856743

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWWH

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	108	105	102	99	101	98	96	97	95	93	94	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35			
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	50910	50910	50910
5°	51475	50698	50143
10°	52232	50261	48989
15°	53088	49463	47822
20°	53433	47785	46412
25°	51904	45194	44502
30°	48232	42004	42033
35°	43178	38289	39114
40°	36966	34336	35587
45°	31812	30266	31395
50°	27656	26356	27140
55°	24332	22661	22468
60°	21647	18919	17421
65°	19012	15145	12616
70°	16308	10704	8513
75°	13243	6218	4984
80°	9480	2688	2476
85°	3665	1128	1128



TEST NUMBER: P856743

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.1	5.0
10°-20°	110.6	14.2
20°-30°	157.9	20.2
30°-40°	165.2	21.1
40°-50°	138.4	17.7
50°-60°	96.8	12.4
60°-70°	52.7	6.8
70°-80°	18.3	2.3
80°-90°	2.1	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°	307.5	39.4
0°-40°	472.6	60.5
0°-60°	707.9	90.6
0°-90°	781.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	781.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	414	414	414	414	414	
5°	417	416	411	408	407	40
15°	417	409	389	378	376	118
25°	383	362	333	327	328	175
35°	288	274	255	257	261	178
45°	183	179	174	180	181	142
55°	114	110	106	106	105	103
65°	65	60	52	44	43	65
75°	28	23	13	10	10	30
85°	3	1	1	1	1	5
90°	0	0	0	0	0	



TEST NUMBER: P856743

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4
2.5°	416.3	415.9	416.0	416.0	416.0	415.9	416.0	415.9	415.9	415.7	415.4
5°	417.4	417.1	417.1	417.1	417.0	416.8	416.8	416.6	416.3	416.2	415.5
7.5°	418.2	417.9	417.9	417.8	417.6	417.4	417.3	416.8	416.3	416.0	415.2
10°	418.7	418.2	418.2	417.9	417.6	417.4	417.1	416.5	415.9	415.1	413.9
12.5°	418.4	417.9	417.8	417.4	416.8	416.5	416.2	415.4	414.3	413.1	411.7
15°	417.4	417.1	416.8	416.3	415.5	415.1	414.7	413.5	412.0	410.4	408.7
17.5°	415.5	415.1	414.4	413.8	412.7	412.2	411.4	409.8	407.7	405.5	402.8
20°	408.7	408.4	407.7	406.6	404.9	404.2	403.1	401.0	398.3	395.6	392.7
22.5°	397.4	396.9	395.9	395.0	393.4	392.3	391.3	388.4	385.4	382.5	379.8
25°	382.9	382.4	381.1	379.8	378.2	376.3	375.4	373.1	370.1	366.4	362.5
27.5°	364.2	362.6	362.1	360.7	358.3	357.7	356.2	353.4	350.5	347.3	344.0
30°	340.0	340.0	339.0	338.4	336.2	335.5	333.9	330.9	329.3	324.8	322.3
32.5°	314.3	314.0	313.2	312.7	311.5	310.3	308.7	307.1	303.6	301.4	297.9
35°	287.9	285.9	286.3	285.3	284.5	283.2	283.1	281.3	278.1	276.9	273.7
37.5°	257.7	256.9	258.1	256.6	255.8	256.0	254.7	253.6	252.3	250.1	249.4
40°	230.5	231.1	231.0	229.7	230.3	229.5	228.2	227.1	226.5	225.1	224.6
42.5°	206.1	205.1	204.8	204.8	205.0	205.0	204.3	203.5	203.5	202.1	200.7
45°	183.1	183.1	182.8	183.8	182.3	182.3	181.9	181.7	181.1	180.7	179.0
47.5°	163.4	163.2	163.1	162.9	162.7	162.7	161.8	161.0	160.8	159.9	158.9
50°	144.7	145.7	145.4	144.6	144.2	144.4	143.8	143.3	143.1	141.5	141.7
52.5°	129.1	128.9	129.3	128.8	128.0	128.2	127.5	126.9	126.2	125.4	124.8
55°	113.6	114.4	114.1	113.6	113.5	113.2	112.7	111.9	111.7	110.0	109.8
57.5°	100.7	100.6	100.3	99.5	99.3	98.8	98.8	98.2	97.2	96.3	95.5
60°	88.1	88.1	87.7	87.5	86.9	86.7	86.5	85.9	84.8	84.0	82.7
62.5°	76.0	76.3	76.0	75.6	75.1	74.4	74.1	73.6	72.7	71.9	70.8
65°	65.4	65.2	65.0	64.4	64.2	63.6	63.4	62.5	61.5	60.9	59.6
67.5°	55.1	54.7	54.7	54.4	54.0	53.6	53.2	52.3	51.2	50.5	49.3
70°	45.4	45.1	45.1	45.1	44.3	43.8	43.7	43.2	41.6	41.0	39.7
72.5°	36.5	36.3	36.2	35.7	35.2	35.2	34.6	33.6	32.8	32.0	31.1
75°	27.9	28.2	27.9	27.3	27.1	26.8	26.3	25.5	24.7	23.7	22.6
77.5°	20.4	20.1	19.8	19.8	19.4	18.8	18.6	18.0	17.1	16.4	15.3
80°	13.4	13.2	12.9	12.6	12.4	12.3	12.1	11.5	10.5	10.0	9.1
82.5°	7.3	7.2	7.2	7.0	6.5	6.5	6.4	5.7	5.3	4.9	4.5
85°	2.6	2.6	2.6	2.4	2.4	2.4	2.2	2.1	1.9	1.8	1.4
87.5°	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
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: P856743

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4
2.5°	415.1	414.7	414.6	414.4	414.3	414.1	413.9	413.6	413.5	413.3	413.0
5°	415.1	414.4	414.1	413.6	413.3	413.0	412.5	412.0	411.5	411.1	410.6
7.5°	414.4	413.5	412.8	411.9	411.5	411.1	410.1	409.5	408.7	407.7	406.6
10°	412.8	411.7	410.4	409.2	408.7	407.9	406.6	405.5	404.2	402.9	401.8
12.5°	410.3	408.5	406.9	405.2	404.2	403.4	401.7	400.1	398.5	397.0	395.1
15°	406.4	404.4	402.3	399.9	398.8	397.8	395.3	393.4	390.8	388.9	387.0
17.5°	400.2	397.0	394.5	391.5	389.9	388.8	386.5	383.5	381.1	379.0	376.8
20°	389.6	386.5	383.0	379.7	377.9	376.5	373.3	370.1	367.7	365.5	363.1
22.5°	375.5	371.7	369.2	365.0	363.6	361.8	358.0	355.1	352.4	350.2	348.0
25°	358.5	355.1	351.6	347.8	346.0	344.0	340.8	337.8	336.0	333.4	330.7
27.5°	338.9	336.2	331.9	328.5	326.8	325.2	322.1	319.4	316.9	315.1	312.6
30°	318.1	315.0	311.1	307.6	306.7	304.8	302.0	300.0	297.3	296.1	295.0
32.5°	295.4	291.7	288.8	286.6	284.7	283.1	281.6	278.3	277.8	275.0	274.6
35°	270.5	268.9	266.2	264.3	262.7	261.6	259.2	257.6	255.8	255.3	254.2
37.5°	247.1	245.1	242.6	240.8	239.7	239.6	237.8	236.9	235.6	234.9	233.7
40°	222.5	221.7	219.5	219.2	217.4	217.3	216.3	215.2	214.1	214.1	214.2
42.5°	199.9	198.9	198.0	196.8	195.9	195.9	195.4	195.1	194.8	194.3	195.1
45°	178.7	177.4	176.8	175.6	176.1	175.2	174.9	174.9	174.4	174.2	175.3
47.5°	158.9	157.5	156.8	156.5	156.5	156.7	155.2	155.7	155.6	155.9	156.4
50°	140.9	139.6	138.7	138.7	138.8	138.2	137.6	138.0	137.6	137.9	139.0
52.5°	124.2	122.9	122.4	122.4	121.5	121.3	121.6	121.0	121.1	121.3	121.9
55°	108.7	107.9	107.1	106.3	106.5	106.2	105.5	105.4	105.7	105.8	106.6
57.5°	94.8	93.7	92.6	92.3	92.0	92.0	91.2	91.0	91.3	90.5	90.5
60°	81.6	81.0	79.5	79.1	79.1	78.3	77.6	77.9	77.1	77.0	77.1
62.5°	69.3	68.9	67.9	66.9	66.6	66.3	65.5	65.2	64.9	64.2	63.3
65°	58.7	57.5	56.4	55.8	55.3	54.5	54.0	53.4	52.4	52.1	51.2
67.5°	48.0	46.9	45.7	45.3	44.8	44.3	43.5	42.7	41.6	40.3	39.2
70°	38.6	37.1	36.5	35.2	34.9	34.3	33.2	32.4	31.2	29.8	28.7
72.5°	29.5	28.5	27.6	26.5	25.7	25.2	24.2	23.0	21.7	20.9	19.8
75°	21.2	20.7	19.4	18.2	17.9	17.2	16.1	15.3	14.3	13.1	12.1
77.5°	14.3	13.4	12.6	11.5	11.2	10.5	9.9	9.1	8.4	7.7	7.0
80°	8.4	7.7	7.2	6.4	6.1	5.7	5.3	4.6	4.1	3.8	3.7
82.5°	4.1	3.5	3.3	2.9	2.7	2.6	2.2	2.1	1.8	1.8	1.8
85°	1.4	1.1	1.1	1.0	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
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: P856743

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4
2.5°	412.8	412.7	412.5	412.3	412.3	412.2	412.2	412.0	412.0	411.9	411.9
5°	410.0	409.5	409.2	408.8	408.8	408.4	408.0	407.7	407.6	407.6	407.2
7.5°	406.0	405.3	404.7	404.2	404.1	403.3	402.6	402.6	402.0	401.7	401.3
10°	400.7	399.6	398.6	398.2	397.5	397.0	396.2	395.8	395.3	394.5	394.3
12.5°	393.5	392.7	391.3	390.7	390.3	389.4	388.1	387.5	387.3	386.7	386.2
15°	385.4	383.7	382.4	381.6	381.6	380.0	379.4	378.4	377.8	377.3	377.1
17.5°	374.9	373.1	371.9	370.7	370.4	369.2	368.2	367.9	367.1	367.4	366.6
20°	361.3	359.9	358.9	357.5	357.5	356.7	356.4	355.6	355.3	355.0	355.3
22.5°	346.8	345.1	343.5	343.3	343.3	342.2	342.1	341.9	341.3	341.7	341.6
25°	329.8	328.5	327.5	327.4	327.4	326.8	326.1	326.4	326.9	326.8	327.2
27.5°	312.1	310.8	310.5	310.3	310.0	309.9	310.2	310.2	310.7	311.3	311.9
30°	293.0	292.6	292.2	292.0	291.7	292.5	292.8	293.3	293.1	294.1	294.7
32.5°	273.8	273.2	273.0	273.4	273.8	273.7	274.6	275.0	275.3	276.4	276.9
35°	254.5	254.4	254.1	254.1	254.2	255.5	255.5	256.6	257.3	257.6	258.9
37.5°	233.8	234.5	234.8	235.3	235.4	235.9	236.2	237.3	238.0	238.6	239.2
40°	214.9	214.5	216.0	215.0	215.3	216.8	217.4	217.3	218.2	219.2	219.8
42.5°	194.6	195.1	195.4	195.7	196.5	196.7	197.5	198.6	198.9	200.0	200.4
45°	175.0	175.2	175.8	176.4	176.9	178.2	178.5	179.0	180.0	180.0	180.4
47.5°	156.5	157.2	157.2	158.1	158.9	158.8	159.9	160.2	160.0	160.8	161.1
50°	138.8	139.8	139.6	140.3	140.6	140.7	141.7	142.0	141.4	142.2	142.3
52.5°	121.9	122.4	123.1	123.2	122.9	123.7	123.4	124.0	123.8	124.5	123.8
55°	106.5	106.3	106.3	106.6	106.3	106.6	107.0	106.3	105.8	106.5	106.3
57.5°	91.0	91.0	90.7	91.2	90.7	90.2	90.1	89.6	89.1	89.1	88.9
60°	76.5	76.2	75.6	75.4	75.4	74.6	74.3	73.6	73.6	73.0	72.4
62.5°	63.0	62.2	61.7	61.7	61.4	60.6	59.1	58.2	57.9	56.9	56.7
65°	50.2	49.4	48.9	48.0	47.2	46.9	45.4	44.3	43.8	42.9	43.0
67.5°	38.6	37.3	35.9	35.2	34.7	33.6	33.2	32.4	31.9	31.9	31.9
70°	27.7	26.6	25.2	24.7	24.4	23.4	23.0	22.8	23.3	23.1	23.3
72.5°	18.6	17.5	16.9	16.6	16.3	15.8	16.1	16.3	15.9	16.1	16.3
75°	11.3	11.0	10.5	10.4	10.4	10.5	10.4	10.4	10.5	10.5	10.7
77.5°	6.5	6.2	6.2	6.1	6.4	6.2	6.2	6.2	6.4	6.4	6.4
80°	3.5	3.5	3.5	3.5	3.7	3.5	3.7	3.7	3.7	3.7	3.7
82.5°	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.8
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
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: P856743

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	414.4	414.4	414.4	414.4	414.4	414.4	414.4	414.4
2.5°	411.5	411.5	411.5	411.2	411.4	411.4	411.2	411.2
5°	407.1	406.9	406.6	406.6	406.3	406.6	406.4	406.6
7.5°	401.0	401.0	400.6	400.6	400.4	400.2	400.1	400.2
10°	393.9	393.9	393.5	393.4	393.5	392.9	392.9	392.7
12.5°	385.9	385.6	385.2	385.4	385.2	384.8	384.6	384.8
15°	376.6	376.2	376.3	375.8	375.8	375.7	376.0	376.0
17.5°	366.4	366.1	365.8	366.0	365.6	365.8	365.6	365.5
20°	355.1	355.0	355.0	354.3	354.5	354.3	354.5	355.0
22.5°	342.1	341.9	342.1	341.6	341.9	341.9	342.4	342.4
25°	327.7	327.5	327.9	328.0	328.2	328.7	328.2	328.3
27.5°	311.8	312.2	312.7	312.9	313.5	313.0	312.7	313.2
30°	295.7	295.7	295.5	296.1	296.6	297.1	296.3	296.3
32.5°	277.2	278.0	278.0	278.1	278.6	278.6	278.6	279.3
35°	259.5	260.0	260.1	259.5	259.8	259.6	260.8	260.8
37.5°	239.7	239.7	239.9	241.0	241.0	240.5	240.8	240.8
40°	220.9	221.1	220.4	220.8	221.6	221.2	221.6	221.9
42.5°	200.4	201.5	200.8	201.2	201.0	201.2	201.3	201.3
45°	180.7	181.1	181.1	181.2	181.5	181.9	180.9	180.7
47.5°	161.6	161.8	162.3	161.5	162.4	161.5	162.4	161.3
50°	142.3	143.0	142.5	142.8	142.3	142.3	142.2	142.0
52.5°	124.0	123.8	123.8	123.7	123.7	124.0	123.7	124.2
55°	105.7	105.8	105.5	105.4	105.2	105.7	105.2	104.9
57.5°	88.3	88.6	88.0	88.3	87.2	87.7	87.8	88.0
60°	72.2	71.7	71.7	71.1	71.1	71.6	70.9	70.9
62.5°	55.9	56.3	55.8	56.4	56.4	57.1	56.7	57.1
65°	42.9	43.0	43.2	43.2	43.2	44.2	43.8	43.4
67.5°	32.4	32.5	32.7	32.5	33.0	32.7	32.7	32.8
70°	23.4	23.6	23.7	23.7	23.6	23.7	23.7	23.7
72.5°	16.3	16.4	16.3	16.4	16.6	16.4	16.4	16.6
75°	10.7	10.7	10.5	10.5	10.5	10.5	10.7	10.5
77.5°	6.2	6.4	6.2	6.4	6.4	6.4	6.4	6.4
80°	3.7	3.7	3.7	3.5	3.7	3.7	3.7	3.5
82.5°	1.9	1.9	1.8	1.8	1.9	1.9	1.9	1.9
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)