

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: P856846

Luminaire Tested: **LX4C10D010 EX4C109840 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P856846
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C10D010 EX4C109840 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

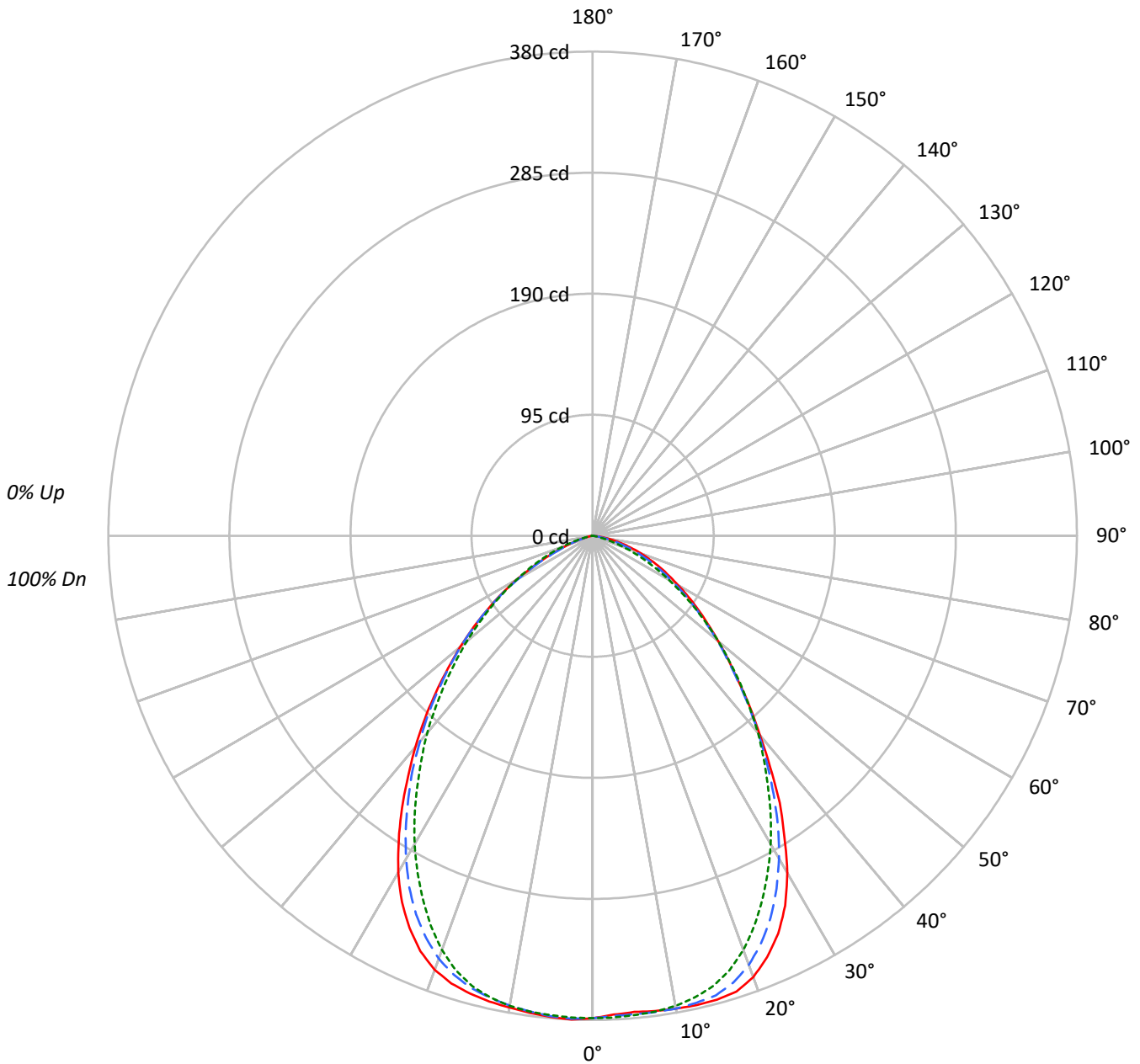
Lumens per Lamp: N/A
Luminaire Lumens: 725.9 lumens
Efficiency: N/A
Efficacy: 74.1 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P856846

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBLWW*

Luminous Intensity Polar Plot





TEST NUMBER: P856846

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBLWW*

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			100
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68			68
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54			54
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39			39
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36			36
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	46512	46512	46512
5°	46258	46579	46752
10°	47018	46731	46906
15°	47937	46525	47301
20°	48190	45222	47379
25°	46698	42713	46061
30°	43338	39635	43267
35°	38379	35949	39099
40°	32716	32379	34673
45°	28111	28424	30214
50°	24541	24598	25898
55°	21676	20755	21462
60°	18993	16929	16880
65°	16831	13139	11686
70°	14368	9016	6968
75°	11582	4889	3180
80°	7924	1203	849
85°	2396	423	423



TEST NUMBER: P856846

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.0	5.0
10°-20°	104.2	14.4
20°-30°	150.5	20.7
30°-40°	155.6	21.4
40°-50°	128.6	17.7
50°-60°	88.7	12.2
60°-70°	46.5	6.4
70°-80°	14.6	2.0
80°-90°	1.2	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°	290.7	40.0
0°-40°	446.3	61.5
0°-60°	663.6	91.4
0°-90°	725.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	379	379	379	379	379	
5°	375	377	378	378	379	36
15°	377	373	366	368	372	106
25°	344	331	315	328	340	157
35°	256	247	240	252	261	159
45°	162	161	164	171	174	126
55°	101	98	97	100	100	91
65°	58	52	45	38	40	57
75°	24	19	10	7	7	26
85°	2	1	0	0	0	4
90°	0	0	0	0	0	



TEST NUMBER: P856846

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6
2.5°	376.2	376.3	376.3	376.6	376.6	376.6	376.8	376.8	376.9	377.0	377.2
5°	375.1	375.1	375.3	375.5	375.8	376.0	376.2	376.3	376.6	376.8	376.9
7.5°	376.2	376.2	376.3	376.5	376.5	376.6	376.6	376.8	376.9	377.0	377.0
10°	376.9	376.9	376.9	376.9	377.0	377.0	377.0	376.9	376.9	376.9	376.8
12.5°	377.2	377.2	377.0	376.9	377.0	376.9	376.9	376.5	376.2	376.0	375.5
15°	376.9	376.9	376.8	376.6	376.5	376.2	376.0	375.3	374.8	373.9	373.4
17.5°	375.1	374.8	374.5	374.2	373.6	373.2	372.9	371.7	370.7	369.3	367.7
20°	368.6	368.2	367.8	367.1	366.4	365.8	365.0	363.1	362.1	360.0	358.4
22.5°	357.9	357.6	357.7	356.4	355.0	354.2	353.6	352.1	350.4	347.6	345.9
25°	344.5	343.7	343.7	341.6	340.9	340.4	339.7	337.8	335.3	332.8	330.6
27.5°	327.2	326.0	325.5	325.1	323.4	322.2	321.2	319.8	317.6	315.5	312.4
30°	305.5	305.4	304.7	303.4	302.1	301.6	300.4	298.0	296.0	294.5	292.5
32.5°	280.1	279.9	279.9	279.9	279.1	278.9	277.2	276.0	274.4	272.0	270.7
35°	255.9	255.8	255.9	253.8	253.3	252.8	252.6	251.8	249.7	248.5	247.4
37.5°	228.6	229.1	228.7	228.2	228.9	227.7	228.6	226.8	225.9	225.6	224.4
40°	204.0	205.2	204.0	204.2	204.8	203.6	203.6	203.3	202.8	202.4	202.2
42.5°	183.0	181.6	182.5	181.7	182.5	182.0	181.3	181.7	181.8	181.3	181.1
45°	161.8	162.1	162.4	161.9	161.9	161.5	162.7	161.9	161.9	162.1	161.0
47.5°	144.6	144.2	144.5	144.2	144.3	144.0	144.3	144.5	144.2	144.2	143.3
50°	128.4	128.1	129.1	128.2	128.2	128.1	128.2	128.0	127.5	127.5	127.8
52.5°	114.3	113.7	113.6	114.3	113.3	113.3	113.4	113.2	112.6	112.4	111.6
55°	101.2	101.1	101.2	100.7	100.4	100.4	99.7	99.3	99.3	98.5	98.1
57.5°	89.0	88.5	88.7	88.5	88.0	87.8	87.3	87.3	86.8	86.1	85.4
60°	77.3	77.3	77.8	77.2	76.8	76.5	76.2	75.9	74.9	73.9	73.1
62.5°	67.0	67.1	67.0	66.5	66.3	66.0	65.7	64.8	63.9	63.4	62.4
65°	57.9	57.7	57.3	57.0	56.3	56.3	55.7	55.3	54.3	53.4	52.4
67.5°	48.5	48.2	48.2	48.2	47.4	47.2	46.9	46.1	45.2	44.1	43.2
70°	40.0	40.2	39.8	39.4	39.0	38.8	38.3	37.5	36.6	35.4	34.7
72.5°	31.8	32.1	31.7	31.6	30.7	30.4	30.3	29.6	28.4	27.7	26.6
75°	24.4	24.6	24.3	24.0	23.5	23.3	22.7	22.0	21.3	20.2	19.2
77.5°	17.7	17.4	17.4	16.8	16.2	16.2	16.1	15.2	14.2	13.4	12.5
80°	11.2	11.1	10.7	10.3	10.0	9.8	9.6	8.9	8.2	7.7	7.1
82.5°	5.7	5.5	5.4	5.3	5.0	4.7	4.8	4.3	4.0	3.4	2.9
85°	1.7	1.9	1.9	1.7	1.6	1.6	1.6	1.4	1.2	1.0	0.9
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: P856846

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6
2.5°	377.3	377.5	377.7	377.7	377.7	377.9	378.0	378.2	378.4	378.4	378.5
5°	377.0	377.3	377.3	377.5	377.5	377.5	377.7	377.7	377.7	377.7	377.7
7.5°	377.2	377.2	377.2	377.0	377.0	376.9	376.9	376.9	376.6	376.6	376.6
10°	376.5	376.3	376.2	376.0	375.8	375.6	375.3	375.1	374.8	374.6	374.4
12.5°	375.1	374.5	373.9	373.4	373.1	372.9	372.4	371.9	371.5	371.1	370.8
15°	372.2	371.3	370.3	369.3	368.9	368.6	367.7	366.8	366.2	365.8	365.1
17.5°	366.5	364.8	363.7	362.0	361.2	361.0	359.5	358.6	357.6	357.3	356.7
20°	356.4	354.9	352.8	351.2	350.4	349.5	348.2	347.1	345.9	345.9	345.2
22.5°	343.8	341.8	339.1	337.1	337.0	335.3	334.1	332.8	332.4	331.5	331.5
25°	327.9	326.1	323.2	321.5	320.6	320.2	318.4	316.7	315.8	315.1	315.7
27.5°	310.2	307.7	305.4	303.3	302.6	301.7	300.0	299.3	297.8	297.6	297.4
30°	290.1	287.5	285.2	284.2	282.8	282.1	280.8	279.9	279.4	279.4	279.1
32.5°	268.9	266.5	265.5	263.3	262.6	261.6	260.7	259.9	260.2	259.9	260.0
35°	245.9	245.4	243.3	242.0	242.0	241.8	240.4	239.9	239.6	239.7	240.4
37.5°	224.2	222.5	221.1	220.3	221.0	220.1	219.9	219.9	220.8	220.3	221.3
40°	201.0	200.9	200.3	200.6	200.7	199.8	200.0	200.2	200.7	201.9	202.1
42.5°	180.8	180.7	180.7	180.7	180.4	179.9	180.4	181.4	181.3	182.1	182.8
45°	161.4	161.0	161.7	161.2	162.1	162.4	161.9	162.2	163.1	163.6	164.8
47.5°	143.6	143.6	143.7	144.0	143.2	143.9	144.2	144.7	145.2	145.4	146.0
50°	127.1	127.1	126.8	126.8	126.8	127.3	126.7	127.4	127.5	128.7	129.4
52.5°	111.9	111.2	111.6	111.3	110.8	110.5	110.8	110.9	111.7	112.0	112.9
55°	97.4	97.4	96.2	96.0	96.4	96.2	96.1	96.1	96.6	96.9	97.6
57.5°	84.6	83.7	82.9	82.8	82.3	82.5	82.5	82.3	82.0	82.2	82.3
60°	72.5	72.0	70.6	70.6	70.5	70.4	69.6	69.6	68.8	68.9	68.4
62.5°	61.4	61.2	59.4	58.9	58.9	58.4	57.7	57.6	56.6	56.6	56.0
65°	51.5	50.7	49.6	48.6	48.6	48.1	47.6	46.4	45.7	45.2	44.3
67.5°	42.4	41.1	40.1	39.2	38.7	38.5	37.5	36.7	35.6	34.9	33.5
70°	33.5	32.5	31.6	30.7	30.1	29.6	28.5	27.3	26.5	25.1	24.3
72.5°	25.3	24.4	23.6	22.5	21.8	21.3	20.3	19.2	17.7	16.9	15.8
75°	18.2	17.2	16.1	15.1	14.6	14.2	13.1	12.2	11.2	10.3	9.1
77.5°	11.8	10.7	9.8	8.6	8.6	8.2	7.1	6.2	5.5	5.0	4.3
80°	6.2	5.7	5.0	4.3	4.0	3.6	2.9	2.6	2.1	1.7	1.4
82.5°	2.7	2.3	1.9	1.6	1.4	1.2	1.0	0.9	0.7	0.7	0.5
85°	0.7	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2	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: P856846

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6
2.5°	378.6	378.7	378.9	378.9	379.1	379.2	379.2	379.3	379.4	379.6	379.6
5°	377.9	377.9	377.9	378.0	378.0	378.0	378.0	378.4	378.4	378.5	378.6
7.5°	376.5	376.5	376.5	376.5	376.3	376.5	376.3	376.3	376.6	376.8	376.9
10°	374.2	374.1	374.1	373.9	373.9	373.9	374.1	374.2	374.4	374.5	374.9
12.5°	370.7	370.5	370.5	370.3	370.3	370.5	370.7	371.0	371.5	371.8	372.4
15°	365.0	364.8	365.0	365.1	365.4	365.8	366.2	366.7	367.5	368.2	368.9
17.5°	356.7	356.9	357.0	357.3	357.7	358.3	359.5	360.5	361.5	362.7	363.8
20°	345.4	345.9	346.1	347.1	347.3	348.6	349.9	351.6	353.1	354.6	356.2
22.5°	331.7	332.1	332.7	333.9	334.6	336.3	337.8	339.8	341.5	343.3	345.6
25°	316.2	316.3	318.1	318.1	319.8	321.2	323.0	325.1	327.7	330.1	331.7
27.5°	298.6	299.3	300.6	301.1	302.4	304.7	306.2	308.8	311.4	313.5	315.2
30°	280.1	280.6	282.8	283.0	284.1	286.1	288.2	290.6	292.6	295.0	296.6
32.5°	260.6	262.2	263.4	264.5	264.8	267.7	268.9	270.6	272.9	275.3	276.8
35°	241.7	242.4	244.2	244.9	245.7	247.4	249.7	251.1	252.2	253.8	255.7
37.5°	221.7	223.8	224.2	225.9	226.2	227.8	228.9	230.6	232.0	233.5	233.7
40°	203.0	203.8	205.3	205.7	206.0	208.1	209.6	210.0	210.7	212.0	213.7
42.5°	184.1	184.9	186.6	186.1	187.4	188.4	189.1	190.8	191.5	191.9	191.9
45°	165.5	165.8	166.9	167.5	168.2	168.8	170.1	170.9	171.2	172.5	172.9
47.5°	147.8	148.0	148.8	149.8	149.5	150.3	151.7	152.1	152.3	153.1	153.6
50°	130.2	130.9	132.1	131.8	132.7	133.0	134.4	134.7	134.7	134.7	134.9
52.5°	113.9	114.4	114.8	115.0	115.5	116.2	116.7	116.5	117.0	117.6	117.2
55°	97.6	98.1	98.8	99.1	99.1	99.3	99.0	100.2	99.7	99.5	99.7
57.5°	82.9	82.3	82.2	82.9	83.2	83.0	82.6	83.2	83.2	82.9	82.5
60°	68.5	68.1	68.0	68.1	67.5	67.1	67.4	67.1	66.4	66.1	66.3
62.5°	55.5	55.0	53.9	53.9	53.6	53.4	52.3	52.4	51.9	51.0	51.4
65°	43.3	42.3	41.6	41.6	40.5	39.7	39.4	38.3	37.5	37.4	37.5
67.5°	32.5	31.3	30.3	29.9	29.2	28.5	27.6	26.8	27.0	26.8	27.5
70°	22.7	21.8	20.8	20.1	20.3	19.4	18.9	18.9	19.1	19.2	19.4
72.5°	15.1	13.9	13.5	13.1	12.8	12.2	12.5	12.5	12.4	12.5	12.2
75°	8.6	7.9	7.6	7.4	7.1	7.1	7.1	7.1	7.0	6.9	6.9
77.5°	3.8	3.6	3.4	3.3	3.3	3.3	3.1	2.9	2.9	2.9	2.9
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.5	0.5	0.7	0.7	0.7	0.5	0.7	0.7	0.5	0.5	0.7
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.2	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: P856846

CATALOG NUMBER: LX4C10D010 EX4C109840 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	378.6	378.6	378.6	378.6	378.6	378.6	378.6	378.6
2.5°	379.8	379.9	379.9	379.9	380.1	380.1	380.1	380.1
5°	378.7	378.9	378.9	378.9	379.1	379.1	379.1	379.1
7.5°	377.0	377.2	377.2	377.3	377.3	377.5	377.5	377.7
10°	375.1	375.3	375.5	375.6	375.8	376.0	376.0	376.0
12.5°	372.9	373.2	373.4	373.6	373.9	374.1	374.2	374.4
15°	369.8	370.3	370.7	370.8	371.3	371.7	371.8	371.9
17.5°	364.8	366.0	366.4	366.7	367.2	367.8	368.2	368.4
20°	357.7	359.0	359.6	360.3	361.2	361.9	362.1	362.4
22.5°	347.8	349.2	350.0	350.9	351.6	352.3	353.5	353.0
25°	333.5	335.9	337.0	337.3	339.0	339.8	340.4	339.8
27.5°	317.6	319.1	319.9	320.8	322.0	322.9	323.2	324.1
30°	298.5	300.9	300.7	301.7	303.1	304.0	304.3	305.0
32.5°	278.5	279.7	280.5	280.4	280.9	282.5	282.0	283.2
35°	257.4	257.4	258.9	258.8	259.9	259.9	259.9	260.7
37.5°	234.7	236.4	235.7	237.5	236.8	237.3	237.3	237.6
40°	214.1	214.7	214.7	215.3	215.7	215.3	215.5	216.2
42.5°	192.8	193.3	193.5	193.2	193.7	194.9	194.0	194.8
45°	172.9	173.4	173.9	173.4	174.2	173.7	174.2	173.9
47.5°	154.1	154.0	153.8	155.0	154.0	154.1	154.7	153.7
50°	134.9	135.8	135.2	135.6	135.9	135.9	135.5	135.5
52.5°	117.9	117.7	117.3	117.7	117.4	117.6	117.9	117.6
55°	100.2	100.8	100.5	100.4	100.5	100.5	101.4	100.2
57.5°	82.9	82.6	83.0	84.0	83.0	83.7	84.2	84.3
60°	66.4	66.4	67.2	66.8	67.7	68.4	68.9	68.7
62.5°	50.7	51.4	51.6	51.7	52.6	53.1	53.1	53.1
65°	37.5	38.5	38.5	39.1	39.4	39.4	39.7	40.2
67.5°	27.7	27.7	27.8	28.2	28.0	28.0	28.3	28.4
70°	19.4	19.1	19.4	19.4	19.4	19.2	19.4	19.4
72.5°	12.2	12.2	12.4	12.2	11.9	12.1	12.1	12.4
75°	6.5	6.9	6.5	6.5	6.7	6.4	6.5	6.7
77.5°	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.5
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.2	0.0	0.2	0.0	0.0	0.0	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)