

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: P856742

Luminaire Tested: **LX4C10D010 EX4C109035 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P856742
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 EX4C109035 4LBLWW*
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

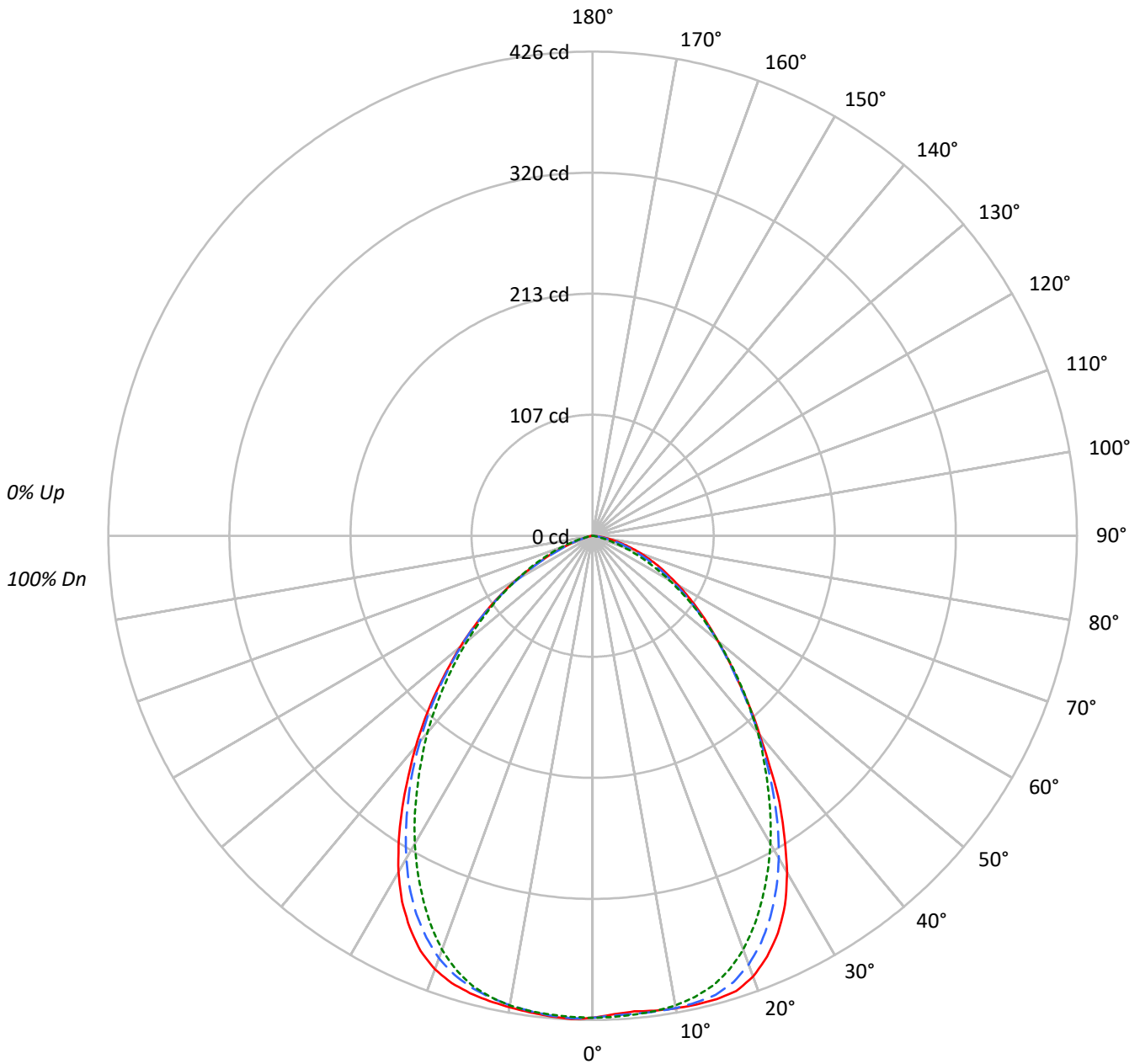
Lumens per Lamp: N/A
Luminaire Lumens: 813.0 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P856742

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWW*

Luminous Intensity Polar Plot





TEST NUMBER: P856742

CATALOG NUMBER: LX4C10D010 EX4C109035 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°	52102	52102	52102
5°	51808	52153	52351
10°	52656	52345	52544
15°	53686	52109	52986
20°	53969	50648	53067
25°	52297	47837	51592
30°	48544	44388	48459
35°	42983	40269	43793
40°	36645	36261	38843
45°	31482	31847	33845
50°	27484	27541	29013
55°	24289	23261	24053
60°	21278	18969	18895
65°	18837	14709	13110
70°	16056	10129	7795
75°	13006	5459	3560
80°	8914	1344	920
85°	2678	423	423



TEST NUMBER: P856742

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	40.3	5.0
10°-20°	116.7	14.4
20°-30°	168.6	20.7
30°-40°	174.3	21.4
40°-50°	144.0	17.7
50°-60°	99.4	12.2
60°-70°	52.0	6.4
70°-80°	16.4	2.0
80°-90°	1.4	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°	325.6	40.0
0°-40°	499.8	61.5
0°-60°	743.2	91.4
0°-90°	813.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	813.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	424	424	424	424	424	
5°	420	422	423	424	424	40
15°	422	418	410	412	417	119
25°	386	370	353	367	381	176
35°	287	277	268	282	292	178
45°	181	180	183	192	195	141
55°	113	110	109	112	112	102
65°	65	59	51	42	45	64
75°	27	22	12	8	8	29
85°	2	1	0	0	0	4
90°	0	0	0	0	0	



TEST NUMBER: P856742

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1
2.5°	421.4	421.5	421.5	421.8	421.8	421.8	422.0	422.0	422.1	422.3	422.5
5°	420.1	420.1	420.4	420.6	420.9	421.0	421.4	421.5	421.8	422.0	422.1
7.5°	421.4	421.4	421.5	421.7	421.7	421.8	421.8	422.0	422.1	422.3	422.3
10°	422.1	422.1	422.1	422.1	422.3	422.3	422.3	422.1	422.1	422.1	422.0
12.5°	422.5	422.5	422.3	422.1	422.3	422.1	422.1	421.7	421.4	421.0	420.6
15°	422.1	422.1	422.0	421.8	421.7	421.4	421.2	420.4	419.8	418.8	418.2
17.5°	420.1	419.8	419.4	419.1	418.5	418.0	417.7	416.3	415.1	413.5	411.8
20°	412.8	412.4	412.0	411.2	410.4	409.7	408.8	406.7	405.6	403.2	401.4
22.5°	400.8	400.5	400.7	399.2	397.6	396.7	396.0	394.3	392.4	389.3	387.4
25°	385.8	384.9	384.9	382.7	381.9	381.2	380.4	378.4	375.5	372.8	370.2
27.5°	366.4	365.1	364.5	364.2	362.3	360.8	359.7	358.1	355.7	353.4	349.9
30°	342.2	342.1	341.3	339.8	338.4	337.8	336.5	333.8	331.5	329.8	327.6
32.5°	313.7	313.5	313.5	313.5	312.6	312.4	310.5	309.1	307.3	304.6	303.2
35°	286.6	286.5	286.6	284.2	283.6	283.1	283.0	282.0	279.6	278.4	277.1
37.5°	256.1	256.5	256.2	255.6	256.4	254.9	256.1	254.0	253.0	252.7	251.3
40°	228.5	229.8	228.5	228.7	229.5	228.0	228.0	227.7	227.1	226.8	226.4
42.5°	204.9	203.4	204.3	203.5	204.3	203.8	203.0	203.5	203.7	203.0	202.9
45°	181.2	181.5	181.9	181.4	181.4	180.9	182.2	181.4	181.4	181.5	180.4
47.5°	161.9	161.5	161.8	161.5	161.6	161.3	161.6	161.8	161.5	161.5	160.5
50°	143.8	143.5	144.6	143.6	143.6	143.5	143.6	143.3	142.8	142.8	143.2
52.5°	128.0	127.4	127.2	128.0	126.9	126.9	127.1	126.8	126.1	125.8	125.0
55°	113.4	113.2	113.4	112.7	112.4	112.4	111.6	111.3	111.2	110.4	109.9
57.5°	99.7	99.2	99.4	99.2	98.6	98.4	97.8	97.8	97.1	96.5	95.7
60°	86.6	86.6	87.1	86.5	86.0	85.7	85.4	85.0	83.9	82.8	81.9
62.5°	75.0	75.2	75.0	74.5	74.2	73.9	73.6	72.6	71.7	71.0	69.9
65°	64.8	64.7	64.2	63.9	63.1	63.1	62.4	61.9	60.8	59.9	58.8
67.5°	54.3	54.0	54.0	54.0	53.0	52.9	52.5	51.6	50.6	49.4	48.4
70°	44.7	45.1	44.6	44.1	43.6	43.5	43.0	42.0	40.9	39.7	38.9
72.5°	35.7	36.0	35.5	35.4	34.4	34.1	33.9	33.1	31.8	31.1	29.8
75°	27.4	27.5	27.2	26.9	26.3	26.1	25.3	24.7	23.9	22.6	21.5
77.5°	19.7	19.4	19.4	18.8	18.2	18.2	18.0	17.0	15.9	15.0	14.0
80°	12.6	12.4	11.9	11.6	11.1	11.0	10.8	10.0	9.2	8.6	8.0
82.5°	6.4	6.2	6.1	5.9	5.6	5.3	5.4	4.8	4.5	3.8	3.3
85°	1.9	2.1	2.1	1.9	1.8	1.8	1.8	1.6	1.3	1.1	1.0
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: P856742

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1
2.5°	422.6	422.8	422.9	423.1	423.1	423.3	423.4	423.6	423.7	423.7	423.9
5°	422.3	422.6	422.6	422.8	422.8	422.8	422.9	422.9	422.9	422.9	423.1
7.5°	422.5	422.5	422.5	422.3	422.3	422.1	422.1	422.1	421.8	421.8	421.8
10°	421.7	421.5	421.4	421.0	420.9	420.7	420.4	420.1	419.8	419.6	419.3
12.5°	420.1	419.4	418.8	418.2	417.8	417.7	417.1	416.6	416.1	415.6	415.3
15°	416.9	415.9	414.8	413.5	413.2	412.9	411.8	410.8	410.2	409.7	408.9
17.5°	410.5	408.6	407.3	405.4	404.6	404.3	402.6	401.6	400.5	400.2	399.5
20°	399.2	397.5	395.1	393.3	392.4	391.4	390.0	388.7	387.4	387.4	386.6
22.5°	385.0	382.8	379.8	377.6	377.4	375.5	374.2	372.8	372.3	371.4	371.4
25°	367.2	365.3	362.0	360.0	359.1	358.6	356.5	354.6	353.7	352.9	353.5
27.5°	347.5	344.6	342.1	339.7	338.9	337.9	336.0	335.2	333.5	333.3	333.1
30°	324.9	322.0	319.4	318.3	316.7	315.9	314.5	313.5	312.9	312.9	312.6
32.5°	301.1	298.6	297.3	294.9	294.1	293.0	292.0	291.1	291.4	291.1	291.3
35°	275.5	274.9	272.5	271.0	271.0	270.9	269.3	268.6	268.3	268.5	269.3
37.5°	251.1	249.2	247.6	246.7	247.5	246.5	246.3	246.3	247.3	246.7	247.9
40°	225.2	225.0	224.4	224.7	224.8	223.7	224.1	224.2	224.8	226.1	226.3
42.5°	202.6	202.4	202.4	202.4	202.1	201.4	202.1	203.2	203.0	204.0	204.8
45°	180.7	180.4	181.1	180.6	181.5	181.9	181.4	181.7	182.6	183.3	184.6
47.5°	160.8	160.8	161.0	161.3	160.4	161.2	161.5	162.1	162.6	162.9	163.5
50°	142.4	142.4	142.0	142.0	142.0	142.5	141.9	142.7	142.8	144.1	144.9
52.5°	125.3	124.5	125.0	124.7	124.0	123.7	124.0	124.2	125.2	125.5	126.4
55°	109.1	109.1	107.8	107.5	108.0	107.8	107.6	107.6	108.1	108.6	109.4
57.5°	94.7	93.8	92.8	92.7	92.2	92.4	92.4	92.2	91.9	92.0	92.2
60°	81.2	80.6	79.1	79.1	79.0	78.8	78.0	77.9	77.1	77.2	76.6
62.5°	68.8	68.5	66.6	65.9	65.9	65.4	64.7	64.5	63.4	63.4	62.7
65°	57.6	56.7	55.6	54.5	54.5	53.8	53.3	51.9	51.1	50.6	49.7
67.5°	47.5	46.0	44.9	44.0	43.3	43.2	42.0	41.1	39.8	39.0	37.6
70°	37.6	36.5	35.4	34.4	33.8	33.1	32.0	30.6	29.6	28.2	27.2
72.5°	28.3	27.4	26.4	25.2	24.4	23.9	22.8	21.5	19.9	18.9	17.7
75°	20.4	19.3	18.0	16.9	16.4	15.9	14.7	13.7	12.6	11.5	10.2
77.5°	13.2	11.9	11.0	9.7	9.6	9.2	8.0	7.0	6.2	5.6	4.8
80°	7.0	6.4	5.6	4.8	4.5	4.0	3.3	2.9	2.4	1.9	1.6
82.5°	3.0	2.5	2.1	1.8	1.6	1.4	1.1	1.0	0.8	0.8	0.6
85°	0.8	0.6	0.6	0.5	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: P856742

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1
2.5°	424.1	424.2	424.4	424.4	424.5	424.7	424.7	424.9	425.0	425.2	425.2
5°	423.3	423.3	423.3	423.4	423.4	423.4	423.4	423.7	423.7	423.9	424.1
7.5°	421.7	421.7	421.7	421.7	421.5	421.7	421.5	421.5	421.8	422.0	422.1
10°	419.1	419.0	419.0	418.8	418.8	418.8	419.0	419.1	419.3	419.4	419.9
12.5°	415.1	415.0	415.0	414.8	414.8	415.0	415.1	415.5	416.1	416.4	417.1
15°	408.8	408.6	408.8	408.9	409.3	409.7	410.2	410.7	411.6	412.4	413.2
17.5°	399.5	399.7	399.9	400.2	400.7	401.3	402.6	403.8	405.0	406.2	407.5
20°	386.8	387.4	387.6	388.7	389.0	390.5	391.9	393.8	395.6	397.1	398.9
22.5°	371.5	372.0	372.6	373.9	374.7	376.6	378.4	380.6	382.5	384.6	387.1
25°	354.2	354.3	356.2	356.2	358.1	359.7	361.8	364.2	367.1	369.8	371.5
27.5°	334.4	335.2	336.6	337.3	338.7	341.3	343.0	345.9	348.7	351.1	353.0
30°	313.7	314.3	316.7	317.0	318.2	320.4	322.8	325.5	327.7	330.4	332.2
32.5°	291.9	293.6	295.1	296.2	296.5	299.9	301.1	303.0	305.6	308.3	310.0
35°	270.7	271.5	273.6	274.2	275.2	277.1	279.6	281.2	282.5	284.2	286.3
37.5°	248.3	250.6	251.1	253.0	253.4	255.1	256.4	258.3	259.9	261.5	261.8
40°	227.4	228.2	229.9	230.4	230.7	233.1	234.7	235.2	236.0	237.4	239.3
42.5°	206.2	207.0	208.9	208.4	209.9	211.0	211.8	213.7	214.5	215.0	215.0
45°	185.4	185.7	186.9	187.6	188.4	189.0	190.5	191.4	191.7	193.2	193.6
47.5°	165.5	165.8	166.7	167.8	167.5	168.3	169.9	170.4	170.5	171.5	172.0
50°	145.9	146.7	147.9	147.6	148.6	149.0	150.5	150.8	150.8	151.0	151.1
52.5°	127.6	128.2	128.5	128.8	129.3	130.1	130.7	130.4	131.1	131.7	131.2
55°	109.4	109.9	110.7	111.0	111.0	111.2	110.8	112.3	111.6	111.5	111.6
57.5°	92.8	92.2	92.0	92.8	93.2	93.0	92.5	93.2	93.2	92.8	92.4
60°	76.8	76.3	76.1	76.3	75.6	75.2	75.5	75.2	74.4	74.0	74.2
62.5°	62.1	61.6	60.4	60.4	60.0	59.9	58.6	58.8	58.1	57.2	57.5
65°	48.6	47.3	46.7	46.5	45.4	44.4	44.1	43.0	42.0	41.9	42.0
67.5°	36.5	35.0	33.9	33.4	32.8	32.0	30.9	29.9	30.3	30.1	30.7
70°	25.3	24.4	23.2	22.5	22.8	21.8	21.2	21.2	21.3	21.5	21.8
72.5°	16.9	15.6	15.1	14.7	14.3	13.7	14.0	14.0	13.9	14.0	13.7
75°	9.6	8.9	8.4	8.3	8.0	8.0	8.0	8.0	7.8	7.6	7.6
77.5°	4.3	4.0	3.8	3.7	3.7	3.7	3.5	3.3	3.3	3.3	3.2
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.6	0.6	0.8	0.8	0.8	0.6	0.8	0.8	0.6	0.6	0.8
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: P856742

CATALOG NUMBER: LX4C10D010 EX4C109035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	424.1	424.1	424.1	424.1	424.1	424.1	424.1	424.1
2.5°	425.3	425.5	425.5	425.5	425.7	425.7	425.7	425.7
5°	424.2	424.4	424.4	424.4	424.5	424.5	424.5	424.5
7.5°	422.3	422.5	422.5	422.6	422.6	422.8	422.8	422.9
10°	420.1	420.4	420.6	420.7	420.9	421.0	421.0	421.2
12.5°	417.7	418.0	418.2	418.5	418.8	419.0	419.1	419.3
15°	414.2	414.8	415.1	415.3	415.9	416.3	416.4	416.6
17.5°	408.6	409.9	410.4	410.7	411.3	412.0	412.4	412.6
20°	400.7	402.1	402.7	403.5	404.5	405.3	405.6	405.9
22.5°	389.5	391.1	392.1	393.0	393.8	394.6	395.9	395.4
25°	373.6	376.3	377.4	377.9	379.6	380.6	381.2	380.6
27.5°	355.7	357.3	358.3	359.4	360.7	361.6	362.0	362.9
30°	334.2	337.0	336.8	337.9	339.5	340.5	340.8	341.6
32.5°	312.0	313.2	314.2	314.0	314.7	316.4	315.8	317.2
35°	288.2	288.4	290.0	289.8	291.1	291.1	291.1	292.0
37.5°	262.9	264.8	264.0	265.9	265.3	265.8	265.8	266.1
40°	239.8	240.5	240.5	241.1	241.6	241.1	241.4	242.2
42.5°	215.9	216.6	216.7	216.4	216.9	218.3	217.2	218.2
45°	193.6	194.1	194.8	194.3	195.1	194.6	195.1	194.8
47.5°	172.6	172.5	172.3	173.6	172.5	172.6	173.3	172.1
50°	151.1	152.1	151.4	151.9	152.2	152.2	151.8	151.8
52.5°	132.0	131.9	131.4	131.9	131.5	131.7	132.0	131.7
55°	112.3	112.9	112.6	112.4	112.6	112.6	113.5	112.3
57.5°	92.8	92.5	93.0	94.1	93.0	93.8	94.3	94.4
60°	74.4	74.4	75.3	74.8	75.8	76.6	77.2	76.9
62.5°	56.7	57.5	57.8	58.0	58.9	59.6	59.6	59.4
65°	42.0	43.2	43.2	43.8	44.1	44.1	44.4	45.1
67.5°	31.1	31.1	31.2	31.5	31.4	31.4	31.7	31.8
70°	21.7	21.3	21.8	21.7	21.7	21.5	21.7	21.7
72.5°	13.7	13.7	13.9	13.7	13.4	13.5	13.5	13.9
75°	7.3	7.6	7.3	7.3	7.5	7.2	7.3	7.5
77.5°	3.0	3.0	3.0	3.0	3.0	2.9	2.9	2.9
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.3	1.3
82.5°	0.6	0.8	0.6	0.8	0.6	0.6	0.6	0.6
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)