

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: P856954

Luminaire Tested: **LX4C15D010 EX4C159035 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P856954
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: LX4C15D010 EX4C159035 4LBLWW*
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

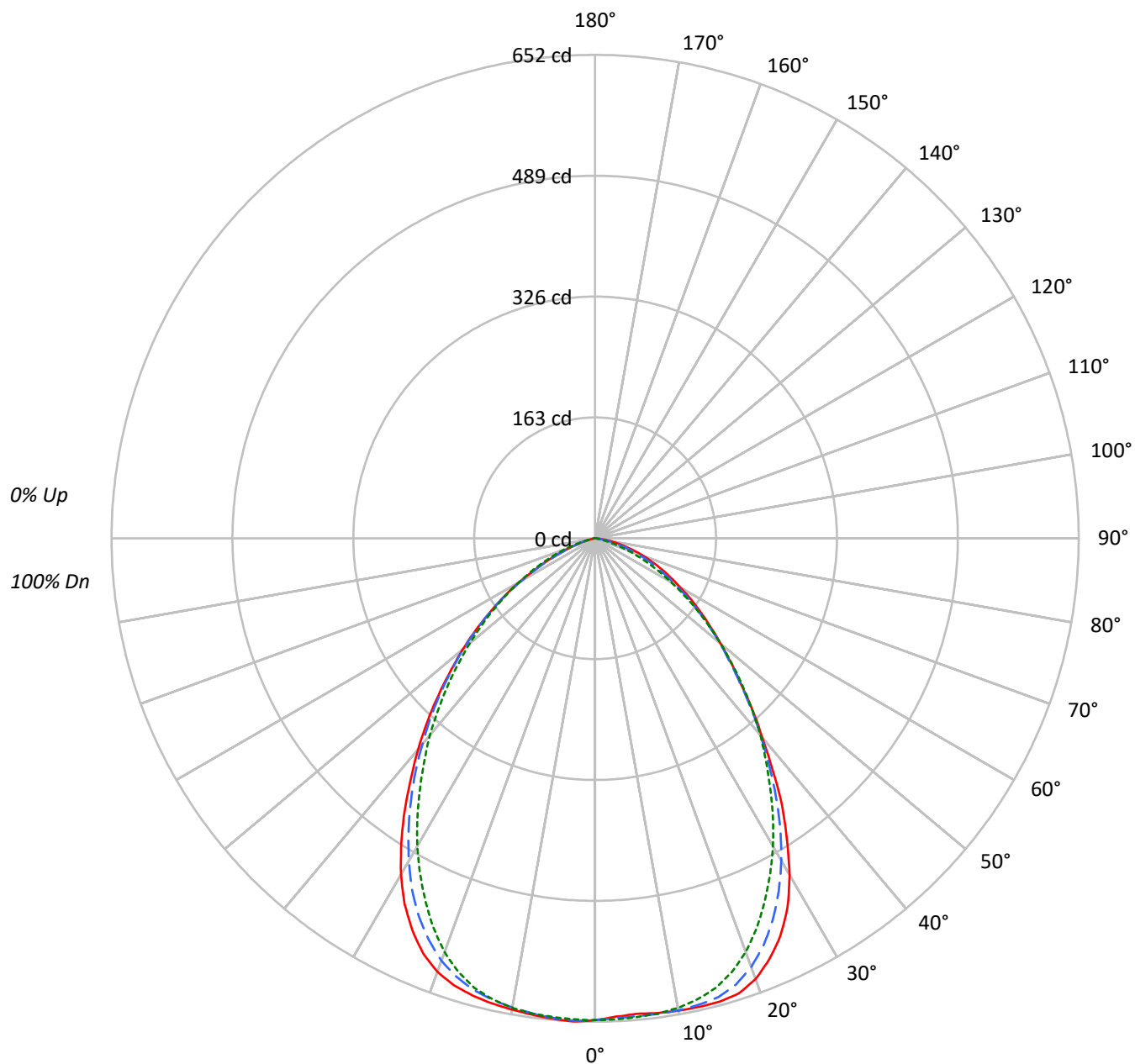
Lumens per Lamp: N/A
Luminaire Lumens: 1246.0 lumens
Efficiency: N/A
Efficacy: 78.9 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 15.8
Input Voltage (V):
Input Current (Ain): 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: P856954

CATALOG NUMBER: LX4C15D010 EX4C159035 4LBLWW*

Luminous Intensity Polar Plot





TEST NUMBER: P856954

CATALOG NUMBER: LX4C15D010 EX4C159035 4LBLWW*

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20
RC	80				70				50				30				10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	79842	79842	79842
5°	79395	79938	80234
10°	80712	80226	80525
15°	82290	79861	81196
20°	82705	77632	81332
25°	80153	73308	79069
30°	74405	68036	74263
35°	65885	61715	67129
40°	56163	55586	59531
45°	48248	48804	51862
50°	42124	42220	44456
55°	37226	35641	36862
60°	32630	29092	28969
65°	28866	22558	20087
70°	24641	15517	11925
75°	19936	8354	5459
80°	13654	2052	1415
85°	4088	705	705



TEST NUMBER: P856954

CATALOG NUMBER: LX4C15D010 EX4C159035 4LBLWW*

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.8	5.0
10°-20°	178.8	14.4
20°-30°	258.4	20.7
30°-40°	267.1	21.4
40°-50°	220.7	17.7
50°-60°	152.3	12.2
60°-70°	79.7	6.4
70°-80°	25.1	2.0
80°-90°	2.1	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°	498.9	40.0
0°-40°	766.0	61.5
0°-60°	1139.0	91.4
0°-90°	1246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1246.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	650	650	650	650	650	
5°	644	647	648	649	651	62
15°	647	641	628	631	638	183
25°	591	567	541	562	583	270
35°	439	425	412	433	448	273
45°	278	276	281	294	298	216
55°	174	168	166	171	172	156
65°	99	90	78	64	69	98
75°	42	33	18	12	12	45
85°	3	2	0	0	0	6
90°	0	0	0	0	0	



TEST NUMBER: P856954

CATALOG NUMBER: LX4C15D010 EX4C159035 4LBLWW*

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9
2.5°	645.8	646.0	646.0	646.5	646.5	646.5	646.7	646.7	647.0	647.2	647.5
5°	643.8	643.8	644.3	644.5	645.0	645.3	645.8	646.0	646.5	646.7	647.0
7.5°	645.8	645.8	646.0	646.3	646.3	646.5	646.5	646.7	647.0	647.2	647.2
10°	647.0	647.0	647.0	647.0	647.2	647.2	647.2	647.0	647.0	647.0	646.7
12.5°	647.5	647.5	647.2	647.0	647.2	647.0	647.0	646.3	645.8	645.3	644.5
15°	647.0	647.0	646.7	646.5	646.3	645.8	645.5	644.3	643.3	641.9	640.9
17.5°	643.8	643.3	642.8	642.3	641.4	640.6	640.1	638.0	636.2	633.8	631.1
20°	632.6	632.1	631.4	630.1	628.9	627.9	626.5	623.3	621.6	617.9	615.3
22.5°	614.3	613.8	614.0	611.8	609.4	607.9	607.0	604.3	601.3	596.7	593.8
25°	591.3	589.9	589.9	586.5	585.2	584.3	583.0	579.9	575.5	571.3	567.4
27.5°	561.6	559.6	558.6	558.1	555.2	553.0	551.3	548.9	545.2	541.6	536.2
30°	524.5	524.2	523.0	520.8	518.6	517.6	515.7	511.5	508.1	505.4	502.0
32.5°	480.8	480.5	480.5	480.5	479.1	478.8	475.9	473.7	471.0	466.9	464.7
35°	439.3	439.1	439.3	435.6	434.7	433.9	433.7	432.2	428.6	426.6	424.7
37.5°	392.4	393.2	392.7	391.7	392.9	390.7	392.4	389.3	387.8	387.3	385.1
40°	350.2	352.2	350.2	350.5	351.7	349.5	349.5	349.0	348.0	347.5	347.0
42.5°	314.1	311.7	313.1	311.9	313.1	312.4	311.2	311.9	312.1	311.2	310.9
45°	277.7	278.2	278.7	278.0	278.0	277.2	279.2	278.0	278.0	278.2	276.5
47.5°	248.2	247.5	248.0	247.5	247.7	247.2	247.7	248.0	247.5	247.5	246.0
50°	220.4	219.9	221.6	220.1	220.1	219.9	220.1	219.6	218.9	218.9	219.4
52.5°	196.2	195.2	195.0	196.2	194.5	194.5	194.8	194.3	193.3	192.8	191.6
55°	173.8	173.5	173.8	172.8	172.3	172.3	171.1	170.6	170.3	169.1	168.4
57.5°	152.8	152.0	152.3	152.0	151.1	150.8	149.8	149.8	148.9	147.9	146.7
60°	132.8	132.8	133.5	132.5	131.8	131.3	130.8	130.3	128.6	126.9	125.4
62.5°	114.9	115.2	114.9	114.2	113.7	113.2	112.8	111.3	109.8	108.8	107.1
65°	99.3	99.1	98.4	97.9	96.6	96.6	95.7	94.9	93.2	91.8	90.1
67.5°	83.2	82.7	82.7	82.7	81.3	81.0	80.5	79.1	77.6	75.7	74.2
70°	68.6	69.1	68.3	67.6	66.9	66.6	65.9	64.4	62.7	60.8	59.5
72.5°	54.7	55.2	54.4	54.2	52.7	52.2	52.0	50.8	48.8	47.6	45.6
75°	42.0	42.2	41.7	41.2	40.3	40.0	38.8	37.8	36.6	34.7	32.9
77.5°	30.3	29.8	29.8	28.8	27.8	27.8	27.6	26.1	24.4	22.9	21.5
80°	19.3	19.0	18.3	17.8	17.1	16.8	16.6	15.4	14.2	13.2	12.2
82.5°	9.8	9.5	9.3	9.0	8.5	8.1	8.3	7.3	6.8	5.9	5.1
85°	2.9	3.2	3.2	2.9	2.7	2.7	2.7	2.4	2.0	1.7	1.5
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: P856954

CATALOG NUMBER: LX4C15D010 EX4C159035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9
2.5°	647.7	648.0	648.2	648.4	648.4	648.7	648.9	649.2	649.4	649.4	649.7
5°	647.2	647.7	647.7	648.0	648.0	648.0	648.2	648.2	648.2	648.2	648.4
7.5°	647.5	647.5	647.5	647.2	647.2	647.0	647.0	647.0	646.5	646.5	646.5
10°	646.3	646.0	645.8	645.3	645.0	644.8	644.3	643.8	643.3	643.1	642.6
12.5°	643.8	642.8	641.9	640.9	640.4	640.1	639.2	638.4	637.7	637.0	636.5
15°	638.9	637.5	635.8	633.8	633.3	632.8	631.1	629.7	628.7	627.9	626.7
17.5°	629.2	626.2	624.3	621.4	620.1	619.6	617.0	615.5	613.8	613.3	612.3
20°	611.8	609.2	605.5	602.8	601.3	599.9	597.7	595.7	593.8	593.8	592.6
22.5°	590.1	586.7	582.1	578.6	578.4	575.5	573.5	571.3	570.6	569.1	569.1
25°	562.8	559.9	554.7	551.8	550.3	549.6	546.4	543.5	542.0	540.8	541.8
27.5°	532.5	528.1	524.2	520.6	519.3	517.9	515.0	513.7	511.0	510.8	510.6
30°	497.9	493.5	489.6	487.9	485.4	484.2	482.0	480.5	479.6	479.6	479.1
32.5°	461.5	457.6	455.6	452.0	450.8	449.1	447.6	446.1	446.6	446.1	446.4
35°	422.2	421.2	417.6	415.4	415.4	415.1	412.7	411.7	411.2	411.5	412.7
37.5°	384.9	381.9	379.5	378.0	379.3	377.8	377.5	377.5	379.0	378.0	380.0
40°	345.1	344.8	343.9	344.4	344.6	342.9	343.4	343.6	344.6	346.6	346.8
42.5°	310.4	310.2	310.2	310.2	309.7	308.7	309.7	311.4	311.2	312.6	313.9
45°	277.0	276.5	277.5	276.8	278.2	278.7	278.0	278.5	279.9	280.9	282.9
47.5°	246.5	246.5	246.7	247.2	245.8	247.0	247.5	248.4	249.2	249.7	250.6
50°	218.2	218.2	217.7	217.7	217.7	218.4	217.5	218.7	218.9	220.9	222.1
52.5°	192.1	190.8	191.6	191.1	190.1	189.6	190.1	190.4	191.8	192.3	193.8
55°	167.2	167.2	165.2	164.7	165.5	165.2	165.0	165.0	165.7	166.4	167.7
57.5°	145.2	143.7	142.3	142.0	141.3	141.6	141.6	141.3	140.8	141.1	141.3
60°	124.5	123.5	121.3	121.3	121.1	120.8	119.6	119.3	118.1	118.4	117.4
62.5°	105.4	104.9	102.0	101.0	101.0	100.3	99.1	98.8	97.1	97.1	96.2
65°	88.3	86.9	85.2	83.5	83.5	82.5	81.8	79.6	78.3	77.6	76.1
67.5°	72.7	70.5	68.8	67.4	66.4	66.1	64.4	63.0	61.0	59.8	57.6
70°	57.6	55.9	54.2	52.7	51.7	50.8	49.1	46.9	45.4	43.2	41.7
72.5°	43.4	42.0	40.5	38.6	37.3	36.6	34.9	32.9	30.5	29.0	27.1
75°	31.2	29.5	27.6	25.9	25.1	24.4	22.5	21.0	19.3	17.6	15.6
77.5°	20.3	18.3	16.8	14.9	14.6	14.2	12.2	10.7	9.5	8.5	7.3
80°	10.7	9.8	8.5	7.3	6.8	6.1	5.1	4.4	3.7	2.9	2.4
82.5°	4.6	3.9	3.2	2.7	2.4	2.2	1.7	1.5	1.2	1.2	1.0
85°	1.2	1.0	1.0	0.7	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P856954

CATALOG NUMBER: LX4C15D010 EX4C159035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9
2.5°	649.9	650.2	650.4	650.4	650.6	650.9	650.9	651.1	651.4	651.6	651.6
5°	648.7	648.7	648.7	648.9	648.9	648.9	648.9	649.4	649.4	649.7	649.9
7.5°	646.3	646.3	646.3	646.3	646.0	646.3	646.0	646.0	646.5	646.7	647.0
10°	642.3	642.1	642.1	641.9	641.9	641.9	642.1	642.3	642.6	642.8	643.6
12.5°	636.2	636.0	636.0	635.8	635.8	636.0	636.2	636.7	637.7	638.2	639.2
15°	626.5	626.2	626.5	626.7	627.2	627.9	628.7	629.4	630.9	632.1	633.3
17.5°	612.3	612.6	612.8	613.3	614.0	615.0	617.0	618.9	620.6	622.6	624.5
20°	592.8	593.8	594.0	595.7	596.2	598.4	600.6	603.5	606.2	608.7	611.4
22.5°	569.4	570.1	571.1	573.0	574.3	577.2	579.9	583.3	586.2	589.4	593.3
25°	542.8	543.0	545.9	545.9	548.9	551.3	554.5	558.1	562.5	566.7	569.4
27.5°	512.5	513.7	515.9	516.9	519.1	523.0	525.7	530.1	534.5	538.1	541.1
30°	480.8	481.8	485.4	485.9	487.6	491.0	494.7	498.8	502.3	506.4	509.1
32.5°	447.3	450.0	452.2	453.9	454.4	459.6	461.5	464.4	468.3	472.5	475.2
35°	414.9	416.1	419.3	420.3	421.7	424.7	428.6	431.0	432.9	435.6	438.8
37.5°	380.5	384.1	384.9	387.8	388.3	391.0	392.9	395.9	398.3	400.7	401.2
40°	348.5	349.7	352.4	353.1	353.6	357.3	359.7	360.5	361.7	363.9	366.8
42.5°	316.0	317.3	320.2	319.5	321.7	323.4	324.6	327.5	328.7	329.5	329.5
45°	284.1	284.6	286.5	287.5	288.7	289.7	291.9	293.4	293.8	296.0	296.8
47.5°	253.6	254.1	255.5	257.2	256.7	258.0	260.4	261.1	261.4	262.8	263.6
50°	223.6	224.8	226.7	226.2	227.7	228.4	230.6	231.1	231.1	231.4	231.6
52.5°	195.5	196.5	197.0	197.4	198.2	199.4	200.4	199.9	200.9	201.8	201.1
55°	167.7	168.4	169.6	170.1	170.1	170.3	169.9	172.1	171.1	170.8	171.1
57.5°	142.3	141.3	141.1	142.3	142.8	142.5	141.8	142.8	142.8	142.3	141.6
60°	117.6	116.9	116.7	116.9	115.9	115.2	115.7	115.2	114.0	113.5	113.7
62.5°	95.2	94.4	92.5	92.5	92.0	91.8	89.8	90.1	89.1	87.6	88.1
65°	74.4	72.5	71.5	71.3	69.6	68.1	67.6	65.9	64.4	64.2	64.4
67.5°	55.9	53.7	52.0	51.3	50.3	49.1	47.3	45.9	46.4	46.1	47.1
70°	38.8	37.3	35.6	34.4	34.9	33.4	32.5	32.5	32.7	32.9	33.4
72.5°	25.9	23.9	23.2	22.5	22.0	21.0	21.5	21.5	21.2	21.5	21.0
75°	14.6	13.7	12.9	12.7	12.2	12.2	12.2	12.2	12.0	11.7	11.7
77.5°	6.6	6.1	5.9	5.6	5.6	5.6	5.4	5.1	5.1	5.1	4.9
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	1.0	1.0	1.2	1.2	1.2	1.0	1.2	1.2	1.0	1.0	1.2
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P856954

CATALOG NUMBER: LX4C15D010 EX4C159035 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	649.9	649.9	649.9	649.9	649.9	649.9	649.9	649.9
2.5°	651.9	652.1	652.1	652.1	652.4	652.4	652.4	652.4
5°	650.2	650.4	650.4	650.4	650.6	650.6	650.6	650.6
7.5°	647.2	647.5	647.5	647.7	647.7	648.0	648.0	648.2
10°	643.8	644.3	644.5	644.8	645.0	645.3	645.3	645.5
12.5°	640.1	640.6	640.9	641.4	641.9	642.1	642.3	642.6
15°	634.8	635.8	636.2	636.5	637.5	638.0	638.2	638.4
17.5°	626.2	628.2	628.9	629.4	630.4	631.4	632.1	632.3
20°	614.0	616.2	617.2	618.4	619.9	621.1	621.6	622.1
22.5°	597.0	599.4	600.9	602.3	603.5	604.8	606.7	606.0
25°	572.5	576.7	578.4	579.1	581.8	583.3	584.3	583.3
27.5°	545.2	547.7	549.1	550.8	552.8	554.2	554.7	556.2
30°	512.3	516.4	516.2	517.9	520.3	521.8	522.3	523.5
32.5°	478.1	480.1	481.5	481.3	482.2	484.9	484.0	486.2
35°	441.7	442.0	444.4	444.2	446.1	446.1	446.1	447.6
37.5°	402.9	405.9	404.6	407.6	406.6	407.3	407.3	407.8
40°	367.5	368.5	368.5	369.5	370.2	369.5	370.0	371.2
42.5°	330.9	331.9	332.2	331.7	332.4	334.6	332.9	334.4
45°	296.8	297.5	298.5	297.7	299.0	298.2	299.0	298.5
47.5°	264.6	264.3	264.1	266.0	264.3	264.6	265.5	263.8
50°	231.6	233.1	232.1	232.8	233.3	233.3	232.6	232.6
52.5°	202.3	202.1	201.3	202.1	201.6	201.8	202.3	201.8
55°	172.1	173.0	172.5	172.3	172.5	172.5	174.0	172.1
57.5°	142.3	141.8	142.5	144.2	142.5	143.7	144.5	144.7
60°	114.0	114.0	115.4	114.7	116.2	117.4	118.4	117.9
62.5°	86.9	88.1	88.6	88.8	90.3	91.3	91.3	91.0
65°	64.4	66.1	66.1	67.1	67.6	67.6	68.1	69.1
67.5°	47.6	47.6	47.8	48.3	48.1	48.1	48.6	48.8
70°	33.2	32.7	33.4	33.2	33.2	32.9	33.2	33.2
72.5°	21.0	21.0	21.2	21.0	20.5	20.7	20.7	21.2
75°	11.2	11.7	11.2	11.2	11.5	11.0	11.2	11.5
77.5°	4.6	4.6	4.6	4.6	4.6	4.4	4.4	4.4
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.0	2.0
82.5°	1.0	1.2	1.0	1.2	1.0	1.0	1.0	1.0
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)