

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: P857001

Luminaire Tested: **LX4C15D010 EX4C159050 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P857001
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: LX4C15D010 EX4C159050 4LBLWWH
Description: 4 INCH 1500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

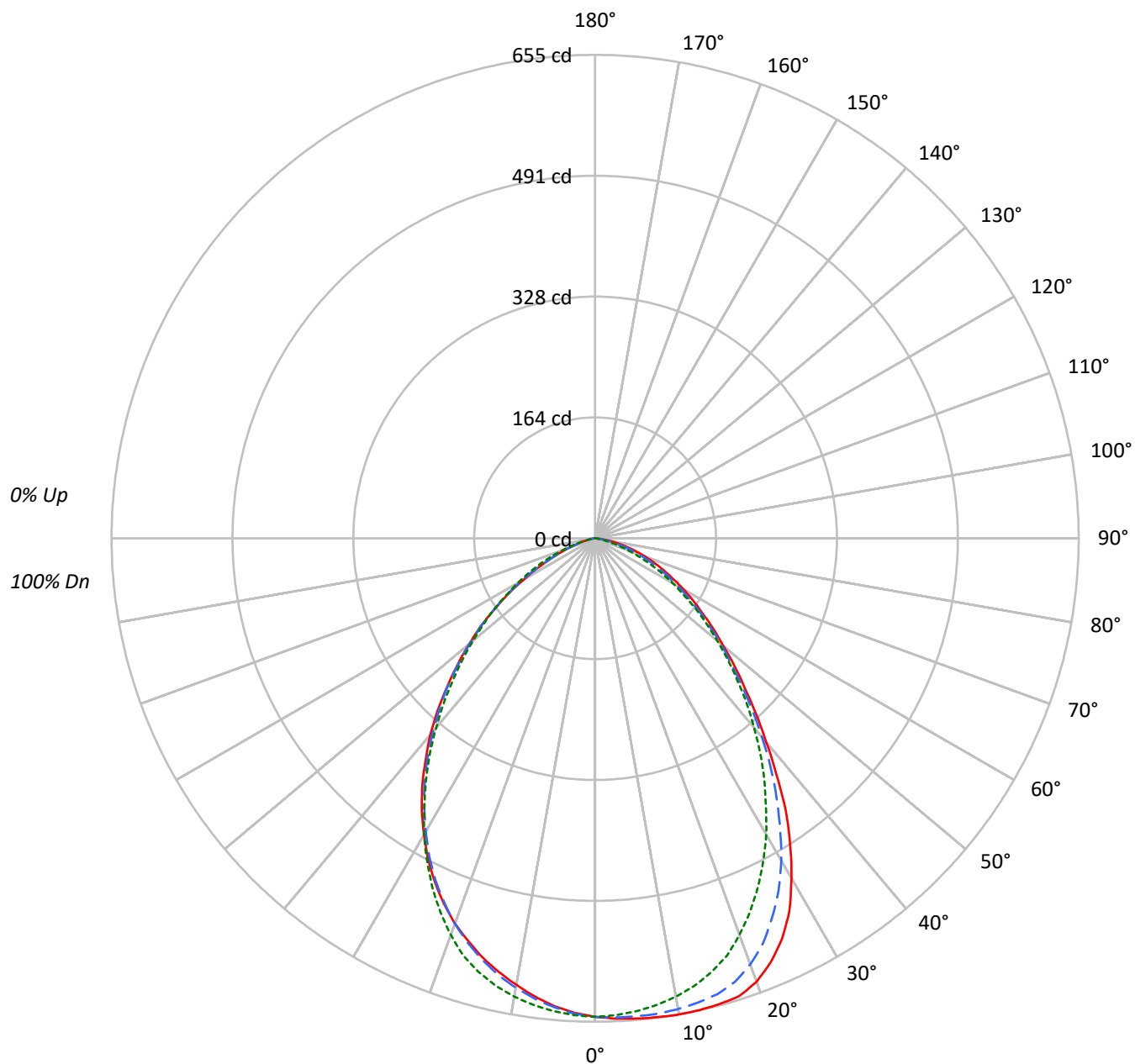
Lumens per Lamp: N/A
Luminaire Lumens: 1222.0 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 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: P857001

CATALOG NUMBER: LX4C15D010 EX4C159050 4LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P857001

CATALOG NUMBER: LX4C15D010 EX4C159050 4LBLWWH

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	50	30	10
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	49	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°	79658	79658	79658
5°	80554	79321	78458
10°	81735	78654	76658
15°	83079	77393	74824
20°	83594	74769	72612
25°	81197	70718	69648
30°	75469	65737	65766
35°	67549	59916	61190
40°	57831	53709	55682
45°	49794	47362	49134
50°	43271	41226	42468
55°	38083	35470	35148
60°	33883	29608	27273
65°	29738	23721	19709
70°	25539	16739	13362
75°	20696	9731	7832
80°	14786	4245	3891
85°	5638	1692	1692



TEST NUMBER: P857001

CATALOG NUMBER: LX4C15D010 EX4C159050 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	5.0
10°-20°	173.0	14.2
20°-30°	247.0	20.2
30°-40°	258.4	21.1
40°-50°	216.5	17.7
50°-60°	151.5	12.4
60°-70°	82.5	6.8
70°-80°	28.6	2.3
80°-90°	3.3	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°	481.1	39.4
0°-40°	739.5	60.5
0°-60°	1107.6	90.6
0°-90°	1222.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1222.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	648	648	648	648	648	
5°	653	650	643	638	636	62
15°	653	639	608	591	588	184
25°	599	567	522	512	514	274
35°	450	428	400	402	408	279
45°	287	280	273	282	283	223
55°	178	172	166	166	164	161
65°	102	93	82	69	68	102
75°	44	35	20	16	16	47
85°	4	2	1	1	1	7
90°	0	0	0	0	0	



TEST NUMBER: P857001

CATALOG NUMBER: LX4C15D010 EX4C159050 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4
2.5°	651.4	650.7	650.9	650.9	650.9	650.7	650.9	650.7	650.7	650.4	649.9
5°	653.2	652.7	652.7	652.7	652.4	652.2	652.2	651.9	651.4	651.2	650.2
7.5°	654.4	653.9	653.9	653.7	653.4	653.2	652.9	652.2	651.4	650.9	649.7
10°	655.2	654.4	654.4	653.9	653.4	653.2	652.7	651.7	650.7	649.4	647.7
12.5°	654.7	653.9	653.7	653.2	652.2	651.7	651.2	649.9	648.2	646.4	644.2
15°	653.2	652.7	652.2	651.4	650.2	649.4	648.9	646.9	644.7	642.2	639.4
17.5°	650.2	649.4	648.4	647.4	645.7	644.9	643.7	641.2	637.9	634.5	630.2
20°	639.4	638.9	637.9	636.2	633.5	632.5	630.7	627.5	623.2	619.0	614.5
22.5°	621.7	621.0	619.5	618.0	615.5	613.8	612.3	607.8	603.0	598.5	594.3
25°	599.0	598.3	596.3	594.3	591.8	588.8	587.3	583.8	579.1	573.4	567.1
27.5°	569.9	567.4	566.6	564.4	560.6	559.6	557.4	552.9	548.4	543.4	538.2
30°	532.0	532.0	530.5	529.5	526.0	525.0	522.5	517.7	515.2	508.3	504.3
32.5°	491.8	491.3	490.1	489.3	487.3	485.6	483.1	480.6	475.1	471.6	466.1
35°	450.4	447.4	447.9	446.4	445.2	443.2	442.9	440.2	435.2	433.2	428.2
37.5°	403.3	402.0	403.8	401.5	400.3	400.5	398.5	396.8	394.8	391.3	390.3
40°	360.6	361.6	361.4	359.4	360.4	359.1	357.1	355.4	354.4	352.1	351.4
42.5°	322.5	321.0	320.5	320.5	320.7	320.7	319.7	318.5	318.5	316.2	314.0
45°	286.6	286.6	286.1	287.6	285.3	285.3	284.6	284.3	283.3	282.8	280.1
47.5°	255.6	255.4	255.1	254.9	254.6	254.6	253.1	251.9	251.6	250.1	248.6
50°	226.4	227.9	227.4	226.2	225.7	226.0	225.0	224.2	224.0	221.5	221.7
52.5°	202.0	201.8	202.3	201.5	200.3	200.5	199.5	198.5	197.5	196.3	195.3
55°	177.8	179.1	178.6	177.8	177.6	177.1	176.3	175.1	174.8	172.1	171.8
57.5°	157.6	157.4	156.9	155.6	155.4	154.6	154.6	153.6	152.1	150.6	149.4
60°	137.9	137.9	137.2	136.9	135.9	135.7	135.4	134.4	132.7	131.4	129.4
62.5°	119.0	119.5	119.0	118.2	117.5	116.5	116.0	115.2	113.7	112.5	110.7
65°	102.3	102.0	101.8	100.8	100.5	99.5	99.3	97.8	96.3	95.3	93.3
67.5°	86.3	85.5	85.5	85.0	84.5	83.8	83.3	81.8	80.1	79.1	77.1
70°	71.1	70.6	70.6	70.6	69.3	68.6	68.3	67.6	65.1	64.1	62.1
72.5°	57.1	56.9	56.6	55.9	55.1	55.1	54.1	52.6	51.4	50.1	48.6
75°	43.6	44.1	43.6	42.6	42.4	41.9	41.1	39.9	38.7	37.2	35.4
77.5°	31.9	31.4	30.9	30.9	30.4	29.4	29.2	28.2	26.7	25.7	23.9
80°	20.9	20.7	20.2	19.7	19.5	19.2	19.0	18.0	16.5	15.7	14.2
82.5°	11.5	11.2	11.2	11.0	10.2	10.2	10.0	9.0	8.2	7.7	7.0
85°	4.0	4.0	4.0	3.7	3.7	3.7	3.5	3.2	3.0	2.7	2.2
87.5°	0.5	0.2	0.5	0.2	0.5	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: P857001

CATALOG NUMBER: LX4C15D010 EX4C159050 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4
2.5°	649.4	648.9	648.7	648.4	648.2	647.9	647.7	647.2	646.9	646.7	646.2
5°	649.4	648.4	647.9	647.2	646.7	646.2	645.4	644.7	643.9	643.2	642.4
7.5°	648.4	646.9	645.9	644.4	643.9	643.2	641.7	640.7	639.4	637.9	636.2
10°	645.9	644.2	642.2	640.2	639.4	638.2	636.2	634.5	632.5	630.5	628.7
12.5°	641.9	639.2	636.7	634.0	632.5	631.2	628.5	626.0	623.5	621.2	618.2
15°	636.0	632.7	629.5	625.7	624.0	622.5	618.5	615.5	611.5	608.5	605.5
17.5°	626.2	621.2	617.2	612.5	610.0	608.3	604.8	600.0	596.3	593.1	589.6
20°	609.5	604.8	599.3	594.1	591.3	589.1	584.1	579.1	575.4	571.9	568.1
22.5°	587.6	581.6	577.6	571.1	568.9	566.1	560.1	555.6	551.4	547.9	544.4
25°	560.9	555.6	550.2	544.2	541.4	538.2	533.2	528.5	525.7	521.7	517.5
27.5°	530.2	526.0	519.2	514.0	511.3	508.8	504.0	499.8	495.8	493.1	489.1
30°	497.8	492.8	486.8	481.3	479.8	476.8	472.6	469.4	465.1	463.4	461.6
32.5°	462.1	456.4	451.9	448.4	445.4	442.9	440.7	435.4	434.7	430.2	429.7
35°	423.2	420.7	416.5	413.5	411.0	409.3	405.5	403.0	400.3	399.5	397.8
37.5°	386.6	383.6	379.6	376.8	375.1	374.8	372.1	370.6	368.6	367.6	365.6
40°	348.2	346.9	343.4	342.9	340.2	339.9	338.4	336.7	334.9	334.9	335.2
42.5°	312.7	311.2	309.7	308.0	306.5	306.5	305.8	305.3	304.8	304.0	305.3
45°	279.6	277.6	276.6	274.8	275.6	274.1	273.6	273.6	272.8	272.6	274.3
47.5°	248.6	246.4	245.4	244.9	244.9	245.2	242.9	243.7	243.4	243.9	244.7
50°	220.5	218.5	217.0	217.0	217.2	216.2	215.2	216.0	215.2	215.7	217.5
52.5°	194.3	192.3	191.5	191.5	190.0	189.8	190.3	189.3	189.5	189.8	190.8
55°	170.1	168.8	167.6	166.3	166.6	166.1	165.1	164.8	165.3	165.6	166.8
57.5°	148.4	146.6	144.9	144.4	143.9	143.9	142.7	142.4	142.9	141.7	141.7
60°	127.7	126.7	124.4	123.7	123.7	122.5	121.5	122.0	120.7	120.5	120.7
62.5°	108.5	107.7	106.2	104.7	104.2	103.7	102.5	102.0	101.5	100.5	99.0
65°	91.8	90.0	88.3	87.3	86.5	85.3	84.5	83.5	82.1	81.6	80.1
67.5°	75.1	73.3	71.6	70.8	70.1	69.3	68.1	66.8	65.1	63.1	61.4
70°	60.4	58.1	57.1	55.1	54.6	53.6	51.9	50.6	48.9	46.6	44.9
72.5°	46.1	44.6	43.1	41.4	40.2	39.4	37.9	35.9	33.9	32.7	30.9
75°	33.2	32.4	30.4	28.4	27.9	26.9	25.2	23.9	22.4	20.5	19.0
77.5°	22.4	20.9	19.7	18.0	17.5	16.5	15.5	14.2	13.2	12.0	11.0
80°	13.2	12.0	11.2	10.0	9.5	9.0	8.2	7.2	6.5	6.0	5.7
82.5°	6.5	5.5	5.2	4.5	4.2	4.0	3.5	3.2	2.7	2.7	2.7
85°	2.2	1.7	1.7	1.5	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.5	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: P857001

CATALOG NUMBER: LX4C15D010 EX4C159050 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4
2.5°	645.9	645.7	645.4	645.2	645.2	644.9	644.9	644.7	644.7	644.4	644.4
5°	641.4	640.7	640.2	639.7	639.7	638.9	638.4	637.9	637.7	637.7	637.2
7.5°	635.2	634.2	633.2	632.5	632.2	631.0	630.0	630.0	629.0	628.5	628.0
10°	627.0	625.2	623.7	623.0	622.0	621.2	620.0	619.2	618.5	617.2	617.0
12.5°	615.8	614.5	612.3	611.3	610.8	609.3	607.3	606.3	606.0	605.0	604.3
15°	603.0	600.3	598.3	597.0	597.0	594.6	593.6	592.1	591.1	590.3	590.1
17.5°	586.6	583.8	581.8	580.1	579.6	577.6	576.1	575.6	574.4	574.9	573.6
20°	565.4	563.1	561.6	559.4	559.4	558.1	557.6	556.4	555.9	555.4	555.9
22.5°	542.7	539.9	537.4	537.2	537.2	535.4	535.2	534.9	534.0	534.7	534.5
25°	516.0	514.0	512.5	512.3	512.3	511.3	510.3	510.8	511.5	511.3	512.0
27.5°	488.3	486.3	485.8	485.6	485.1	484.8	485.3	485.3	486.1	487.1	488.1
30°	458.4	457.9	457.1	456.9	456.4	457.6	458.1	458.9	458.6	460.1	461.1
32.5°	428.5	427.5	427.2	427.7	428.5	428.2	429.7	430.2	430.7	432.4	433.2
35°	398.3	398.0	397.5	397.5	397.8	399.8	399.8	401.5	402.5	403.0	405.0
37.5°	365.9	366.9	367.4	368.1	368.4	369.1	369.6	371.3	372.3	373.3	374.3
40°	336.2	335.7	337.9	336.4	336.9	339.2	340.2	339.9	341.4	342.9	343.9
42.5°	304.5	305.3	305.8	306.3	307.5	307.8	309.0	310.7	311.2	313.0	313.5
45°	273.8	274.1	275.1	276.1	276.8	278.8	279.3	280.1	281.6	281.6	282.3
47.5°	244.9	245.9	245.9	247.4	248.6	248.4	250.1	250.6	250.4	251.6	252.1
50°	217.2	218.7	218.5	219.5	220.0	220.2	221.7	222.2	221.2	222.5	222.7
52.5°	190.8	191.5	192.5	192.8	192.3	193.5	193.0	194.0	193.8	194.8	193.8
55°	166.6	166.3	166.3	166.8	166.3	166.8	167.3	166.3	165.6	166.6	166.3
57.5°	142.4	142.4	141.9	142.7	141.9	141.2	140.9	140.2	139.4	139.4	139.2
60°	119.7	119.2	118.2	118.0	118.0	116.7	116.2	115.2	115.2	114.2	113.2
62.5°	98.5	97.3	96.5	96.5	96.0	94.8	92.5	91.0	90.5	89.0	88.8
65°	78.6	77.3	76.6	75.1	73.8	73.3	71.1	69.3	68.6	67.1	67.3
67.5°	60.4	58.4	56.1	55.1	54.4	52.6	51.9	50.6	49.9	49.9	49.9
70°	43.4	41.6	39.4	38.7	38.2	36.7	35.9	35.7	36.4	36.2	36.4
72.5°	29.2	27.4	26.4	25.9	25.4	24.7	25.2	25.4	24.9	25.2	25.4
75°	17.7	17.2	16.5	16.2	16.2	16.5	16.2	16.2	16.5	16.5	16.7
77.5°	10.2	9.7	9.7	9.5	10.0	9.7	9.7	9.7	10.0	10.0	10.0
80°	5.5	5.5	5.5	5.5	5.7	5.5	5.7	5.7	5.7	5.7	5.7
82.5°	2.7	2.7	2.7	3.0	3.0	3.0	3.0	3.0	3.0	3.0	2.7
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.2	0.5	0.5	0.5	0.5	0.5	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: P857001

CATALOG NUMBER: LX4C15D010 EX4C159050 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	648.4	648.4	648.4	648.4	648.4	648.4	648.4	648.4
2.5°	643.9	643.9	643.9	643.4	643.7	643.7	643.4	643.4
5°	637.0	636.7	636.2	636.2	635.7	636.2	636.0	636.2
7.5°	627.5	627.5	626.7	626.7	626.5	626.2	626.0	626.2
10°	616.3	616.3	615.8	615.5	615.8	614.8	614.8	614.5
12.5°	603.8	603.3	602.8	603.0	602.8	602.0	601.8	602.0
15°	589.3	588.6	588.8	588.1	588.1	587.8	588.3	588.3
17.5°	573.4	572.9	572.4	572.6	572.1	572.4	572.1	571.9
20°	555.6	555.4	555.4	554.4	554.7	554.4	554.7	555.4
22.5°	535.2	534.9	535.2	534.5	534.9	534.9	535.7	535.7
25°	512.8	512.5	513.0	513.3	513.5	514.2	513.5	513.8
27.5°	487.8	488.6	489.3	489.6	490.6	489.8	489.3	490.1
30°	462.6	462.6	462.4	463.4	464.1	464.9	463.6	463.6
32.5°	433.7	434.9	434.9	435.2	435.9	435.9	435.9	436.9
35°	406.0	406.8	407.0	406.0	406.5	406.3	408.0	408.0
37.5°	375.1	375.1	375.3	377.1	377.1	376.3	376.8	376.8
40°	345.7	345.9	344.9	345.4	346.7	346.2	346.7	347.2
42.5°	313.5	315.2	314.2	314.7	314.5	314.7	315.0	315.0
45°	282.8	283.3	283.3	283.6	284.1	284.6	283.1	282.8
47.5°	252.9	253.1	253.9	252.6	254.1	252.6	254.1	252.4
50°	222.7	223.7	223.0	223.5	222.7	222.7	222.5	222.2
52.5°	194.0	193.8	193.8	193.5	193.5	194.0	193.5	194.3
55°	165.3	165.6	165.1	164.8	164.6	165.3	164.6	164.1
57.5°	138.2	138.7	137.7	138.2	136.4	137.2	137.4	137.7
60°	113.0	112.2	112.2	111.2	111.2	112.0	111.0	111.0
62.5°	87.5	88.0	87.3	88.3	88.3	89.3	88.8	89.3
65°	67.1	67.3	67.6	67.6	67.6	69.1	68.6	67.8
67.5°	50.6	50.9	51.1	50.9	51.6	51.1	51.1	51.4
70°	36.7	36.9	37.2	37.2	36.9	37.2	37.2	37.2
72.5°	25.4	25.7	25.4	25.7	25.9	25.7	25.7	25.9
75°	16.7	16.7	16.5	16.5	16.5	16.5	16.7	16.5
77.5°	9.7	10.0	9.7	10.0	10.0	10.0	10.0	10.0
80°	5.7	5.7	5.7	5.5	5.7	5.7	5.7	5.5
82.5°	3.0	3.0	2.7	2.7	3.0	3.0	3.0	3.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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)