

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: P843237

Luminaire Tested: **LD4C08DE010B2750 EU4C08B30 4LBSWLI**

Issue Date: 5/7/2024



**Test Information**

Test Method: LM-79-08  
Report Number: P843237  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P251556)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/7/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LD4C08DE010B2750 EU4C08B30 4LBSWLI  
Description: 4in Downlight with BioUp LEDs  
Light Source: -  
Ballast/Driver:

**Summary**

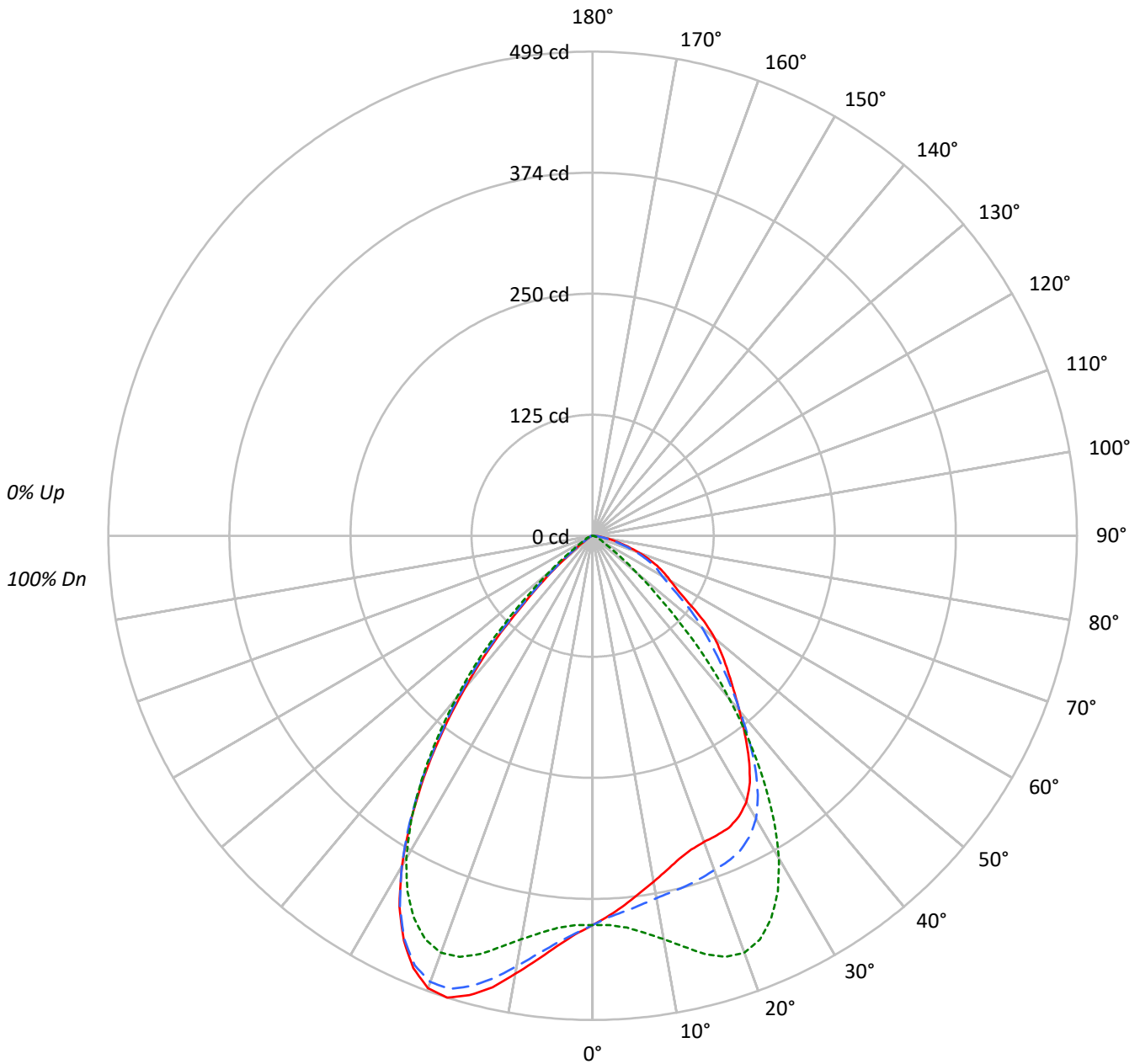
Lumens per Lamp: N/A  
Luminaire Lumens: 740.4 lumens  
Efficiency: N/A  
Efficacy: 77.1 lumens/watt  
Spacing Criteria (0/90/45): 1.25 / 1.3 / 1.19  
Luminous Opening: Circular (Dia: 0.33' x H: 0')  
CIE Type: Direct

Input Watts (W): 9.6  
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: P843237

CATALOG NUMBER: LD4C08DE010B2750 EU4C08B30 4LBSWLI

### Luminous Intensity Polar Plot





TEST NUMBER: P843237

CATALOG NUMBER: LD4C08DE010B2750 EU4C08B30 4LBSWLI

**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	64																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	60	68	64	60	58																			
6	79	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	75	63	56	51	73	62	55	51	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	65	54	47	42	53	46	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	47	42	39	37																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	49289	49289	49289
5°	47085	49995	52375
10°	45147	52656	57172
15°	43829	56751	62347
20°	43889	59773	64846
25°	45017	58993	62409
30°	44955	54460	55722
35°	42098	46028	45398
40°	37704	35106	32748
45°	34210	22291	18278
50°	31440	11315	7798
55°	25810	5055	2592
60°	22654	2826	1425
65°	21308	2122	1076
70°	18247	1724	934
75°	13908	1234	759
80°	10046	778	354
85°	7330	0	0



TEST NUMBER: P843237

CATALOG NUMBER: LD4C08DE010B2750 EU4C08B30 4LBSWLI

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	39.0	5.3
10°-20°	121.5	16.4
20°-30°	187.9	25.4
30°-40°	185.1	25.0
40°-50°	113.7	15.4
50°-60°	50.6	6.8
60°-70°	28.2	3.8
70°-80°	12.2	1.7
80°-90°	2.2	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°	348.3	47.0
0°-40°	533.5	72.1
0°-60°	697.7	94.2
0°-90°	740.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.4	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	401	401	401	401	401	
5°	382	388	405	421	425	36
15°	345	374	446	480	490	98
25°	332	359	435	459	460	152
35°	281	292	307	306	303	174
45°	197	187	128	112	105	153
55°	120	109	24	14	12	111
65°	73	66	7	4	4	72
75°	29	25	3	2	2	32
85°	5	4	0	0	0	6
90°	0	0	0	0	0	



TEST NUMBER: P843237

CATALOG NUMBER: LD4C08DE010B2750 EU4C08B30 4LBSWLI

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2
2.5°	391.7	391.7	391.7	391.7	392.8	391.2	392.8	392.8	394.4	394.9	393.3
5°	381.8	381.3	381.8	381.8	382.9	382.3	383.9	385.0	387.1	388.2	388.2
7.5°	371.3	371.3	371.3	372.4	374.0	373.5	375.0	376.6	379.7	381.8	383.4
10°	361.9	361.4	363.0	363.5	365.0	365.0	367.6	369.2	372.9	377.2	379.2
12.5°	353.0	352.5	353.6	355.2	357.7	357.7	359.8	362.5	367.6	372.4	376.0
15°	344.6	345.1	346.7	347.7	350.9	350.9	353.6	356.6	362.5	368.2	373.5
17.5°	338.9	339.4	340.5	342.0	345.1	345.1	347.7	351.5	357.7	364.0	370.3
20°	335.7	336.2	337.3	338.9	341.5	342.0	344.2	348.3	354.0	360.9	366.6
22.5°	334.2	335.2	336.2	337.3	339.9	339.9	342.6	345.6	351.5	358.2	363.5
25°	332.1	333.0	333.6	335.2	337.3	337.3	338.9	342.6	347.7	353.6	358.7
27.5°	326.3	327.3	327.9	329.5	331.6	331.0	333.0	335.7	340.5	345.6	349.9
30°	316.9	317.4	318.5	319.0	320.6	320.6	322.0	324.7	327.9	332.6	336.8
32.5°	301.6	302.7	303.2	303.8	305.3	304.8	305.3	306.9	310.1	314.2	316.9
35°	280.7	282.8	282.8	283.9	284.4	283.9	283.9	286.0	287.6	290.6	292.2
37.5°	257.6	259.2	258.7	259.8	260.3	258.7	259.8	260.3	262.4	264.0	264.5
40°	235.1	235.6	235.6	235.6	235.6	235.1	235.6	236.2	237.8	237.8	236.2
42.5°	214.7	215.2	215.2	214.2	215.2	214.7	214.7	214.7	214.7	212.7	211.1
45°	196.9	197.5	197.5	196.9	196.9	195.9	195.3	194.8	193.2	190.7	187.0
47.5°	180.1	181.2	181.7	180.6	180.1	179.2	179.2	176.0	173.9	170.7	165.5
50°	164.5	165.5	165.5	164.5	164.5	162.9	161.3	160.2	157.2	153.5	147.1
52.5°	144.6	146.2	146.2	145.6	145.6	143.5	143.0	140.9	138.2	134.1	128.8
55°	120.5	122.6	122.1	121.5	120.5	120.5	120.5	118.9	117.3	114.1	108.9
57.5°	103.1	103.8	103.8	103.1	103.1	102.2	102.2	100.6	100.1	96.9	92.8
60°	92.2	92.2	92.8	92.2	91.7	91.2	90.6	89.6	88.0	85.9	82.7
62.5°	83.2	83.8	83.8	83.2	82.7	82.2	81.8	80.7	79.6	78.1	74.9
65°	73.3	74.4	73.8	73.3	72.8	72.2	72.2	71.2	70.2	69.2	66.0
67.5°	62.3	62.8	63.4	62.3	62.3	61.8	61.8	60.7	60.2	58.2	56.1
70°	50.8	51.3	51.3	50.8	50.8	50.2	50.2	49.7	49.2	47.7	45.6
72.5°	39.8	40.3	39.8	39.2	39.2	39.2	38.7	38.2	37.8	36.7	35.1
75°	29.3	29.3	29.8	29.3	28.8	28.8	28.2	28.2	27.2	26.8	25.2
77.5°	20.9	21.5	20.9	20.9	20.4	19.9	19.9	19.4	19.4	18.8	17.8
80°	14.2	14.2	14.7	14.2	13.6	14.2	13.6	13.1	13.1	12.6	11.5
82.5°	8.9	9.4	8.9	8.9	8.9	8.9	8.9	8.4	8.4	7.8	7.3
85°	5.2	5.2	5.2	5.2	5.2	5.2	5.2	4.8	4.8	4.8	4.2
87.5°	2.6	2.6	2.1	2.1	2.6	2.6	2.6	2.1	2.1	2.1	2.1
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: P843237

CATALOG NUMBER: LD4C08DE010B2750 EU4C08B30 4LBSWLI

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2
2.5°	395.4	396.0	397.0	398.6	398.6	397.6	400.1	400.1	401.2	401.7	403.8
5°	391.2	392.3	394.4	397.0	397.6	397.0	400.6	402.2	403.8	405.4	408.6
7.5°	387.6	389.6	393.3	397.0	398.6	398.6	404.3	406.4	409.5	412.7	416.4
10°	385.5	388.6	393.9	399.6	401.2	402.7	409.5	413.7	418.0	422.1	427.4
12.5°	382.9	388.6	395.4	402.7	405.9	408.0	417.4	422.6	428.4	433.6	440.5
15°	382.3	389.1	398.1	407.5	411.6	414.8	425.3	432.6	439.4	446.2	453.1
17.5°	380.2	388.6	399.6	410.2	415.3	419.6	431.5	440.5	448.3	455.1	463.0
20°	377.6	387.1	399.2	410.6	416.4	420.5	433.6	442.1	451.0	457.2	464.5
22.5°	374.0	383.4	395.4	407.0	412.2	415.9	429.0	436.3	444.1	450.4	457.2
25°	367.6	376.6	387.1	396.5	401.7	404.9	416.4	423.2	429.0	435.2	441.6
27.5°	358.7	365.6	374.5	381.3	384.4	387.6	397.0	402.7	408.0	413.2	417.4
30°	343.1	348.3	354.6	360.3	363.5	364.0	372.9	376.0	380.2	383.9	387.1
32.5°	322.0	326.3	330.0	333.0	335.2	335.7	342.6	343.6	347.7	347.7	352.5
35°	295.4	297.5	300.1	300.1	301.6	300.1	304.8	305.9	306.4	306.9	310.6
37.5°	265.0	266.1	267.7	264.5	264.5	262.9	264.5	265.6	263.5	263.5	266.1
40°	236.2	234.1	232.0	228.9	227.3	224.1	224.1	221.6	220.0	218.9	219.5
42.5°	208.5	203.7	199.0	192.2	189.1	185.9	182.8	179.2	178.1	175.5	173.9
45°	181.7	174.9	168.7	157.7	151.3	148.2	141.4	134.1	129.3	128.3	124.2
47.5°	159.2	149.2	138.8	125.8	119.4	113.7	103.8	97.4	91.2	88.0	85.4
50°	139.3	130.4	116.8	102.7	94.8	89.1	78.1	70.8	63.9	59.2	56.1
52.5°	122.1	112.1	99.5	83.2	75.4	69.2	57.1	48.8	42.9	38.2	34.6
55°	102.7	94.8	82.2	67.1	59.2	51.8	41.4	32.5	26.8	23.6	20.9
57.5°	88.5	81.8	69.7	55.0	47.7	40.8	30.4	23.1	18.3	15.2	13.6
60°	79.1	72.8	62.3	48.2	41.4	35.1	25.2	18.3	14.2	11.5	10.5
62.5°	71.2	64.9	55.5	42.4	36.7	30.4	21.5	15.2	11.5	9.4	7.8
65°	62.3	56.6	48.2	36.7	31.4	26.2	18.3	12.6	9.4	7.3	6.2
67.5°	52.9	47.7	40.3	30.4	26.2	22.0	14.7	10.5	7.8	6.2	5.2
70°	42.9	38.7	31.9	24.6	20.9	17.2	12.1	8.4	5.8	4.8	4.2
72.5°	33.0	29.3	24.6	18.8	15.8	13.1	8.9	6.2	4.8	3.7	3.2
75°	23.6	20.9	17.2	13.6	11.5	9.4	6.8	4.8	3.2	2.6	2.1
77.5°	16.2	14.7	12.1	9.4	7.8	6.8	4.8	3.2	2.6	2.1	1.6
80°	10.5	9.4	7.8	5.8	4.8	4.2	2.6	2.1	1.6	1.1	1.1
82.5°	6.2	5.8	4.8	3.2	2.6	2.1	1.6	1.1	1.1	0.5	0.5
85°	3.7	3.2	2.1	1.6	1.6	1.1	1.1	0.5	0.5	0.0	0.0
87.5°	1.6	1.1	1.1	0.5	0.5	0.5	0.5	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: P843237

CATALOG NUMBER: LD4C08DE010B2750 EU4C08B30 4LBSWLI

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2
2.5°	402.7	405.4	404.9	406.4	405.9	405.9	408.6	407.5	410.2	410.2	410.6
5°	408.6	412.2	412.2	414.8	414.3	415.3	418.0	418.0	421.1	422.1	422.1
7.5°	416.9	421.6	422.6	425.3	425.8	427.9	430.0	430.6	434.7	435.7	436.3
10°	428.4	434.2	435.7	438.4	439.4	441.6	444.1	445.2	450.4	451.0	453.1
12.5°	442.5	448.9	450.4	453.5	454.1	456.7	460.4	461.4	466.6	468.2	469.8
15°	456.2	462.0	464.5	467.7	468.2	471.4	474.6	475.5	480.3	482.4	484.0
17.5°	465.6	472.4	474.0	478.2	478.2	480.8	484.0	485.0	489.7	491.3	492.3
20°	467.7	474.0	476.0	479.2	479.7	481.3	484.0	485.0	489.2	489.7	491.3
22.5°	459.9	466.1	467.2	470.3	470.9	472.4	474.6	474.0	479.2	478.7	479.2
25°	443.1	448.9	448.9	452.6	452.0	453.5	454.6	454.1	458.8	458.8	458.8
27.5°	419.0	424.2	424.7	427.4	425.8	426.3	427.4	426.9	430.0	430.0	430.0
30°	389.1	393.3	391.7	393.9	392.8	393.9	392.8	392.3	393.3	394.4	393.9
32.5°	352.0	355.2	355.2	355.6	355.6	352.5	351.5	351.5	350.9	350.4	350.4
35°	309.0	311.6	310.6	310.6	310.1	306.9	305.3	304.3	305.9	302.7	304.8
37.5°	265.0	265.6	264.0	263.5	260.8	260.8	258.2	256.1	257.1	256.7	254.6
40°	216.8	218.9	215.8	214.7	216.3	214.2	211.6	209.0	211.1	208.5	209.5
42.5°	169.6	169.1	168.2	168.2	168.2	165.0	164.5	163.9	164.5	162.3	160.8
45°	122.6	121.0	119.4	119.4	117.3	116.2	116.2	114.8	112.1	112.1	108.9
47.5°	82.7	79.1	78.1	77.5	76.5	76.5	75.4	74.4	73.8	71.2	71.2
50°	53.9	50.2	49.2	48.8	49.2	48.2	47.2	46.1	45.1	44.5	43.5
52.5°	32.5	30.9	29.8	29.3	28.2	27.7	27.2	26.2	25.7	25.7	25.2
55°	19.4	17.8	15.8	15.8	15.8	15.2	14.7	14.2	13.6	13.6	13.1
57.5°	12.1	11.0	9.9	9.4	9.4	9.4	8.9	8.9	8.9	8.9	8.4
60°	8.9	7.8	7.3	7.3	7.3	6.8	6.8	6.8	6.8	6.2	6.2
62.5°	6.8	6.2	5.8	5.8	5.2	5.2	5.2	5.2	5.2	5.2	4.8
65°	5.8	4.8	4.8	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
67.5°	4.2	3.7	3.7	3.7	3.7	3.2	3.2	3.2	3.2	3.2	3.2
70°	3.2	3.2	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	2.6	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	2.1	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.6	1.6	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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: P843237

CATALOG NUMBER: LD4C08DE010B2750 EU4C08B30 4LBSWLI

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	401.2	401.2	401.2	401.2	401.2	401.2	401.2	401.2
2.5°	410.6	413.2	410.6	410.6	412.2	411.6	412.7	411.1
5°	422.6	426.3	423.7	423.2	425.8	425.3	425.8	424.7
7.5°	437.3	441.0	438.4	438.4	441.0	440.5	442.1	441.0
10°	454.1	458.3	454.6	455.1	458.8	458.3	458.3	458.3
12.5°	471.4	475.5	473.5	473.5	476.0	476.6	477.1	476.6
15°	485.6	489.7	487.0	487.0	490.7	490.2	490.7	490.2
17.5°	493.9	498.0	495.0	495.0	498.0	498.0	498.6	499.1
20°	491.8	496.6	493.9	492.9	496.6	496.6	496.0	496.0
22.5°	479.7	484.0	481.9	480.8	483.4	482.4	481.9	482.4
25°	458.8	463.0	458.8	458.8	460.9	460.4	460.9	460.4
27.5°	430.6	433.6	429.5	429.0	431.1	430.0	429.5	431.1
30°	392.8	396.0	393.9	392.3	394.9	393.3	392.3	392.8
32.5°	349.9	352.0	350.9	348.3	349.9	348.8	348.3	348.8
35°	302.7	305.3	301.2	300.6	303.2	301.2	300.1	302.7
37.5°	254.0	257.1	253.5	254.0	252.5	253.0	251.9	253.5
40°	207.9	207.4	206.3	205.8	206.3	204.8	205.8	204.2
42.5°	158.1	159.2	158.6	158.1	158.6	156.6	155.6	157.7
45°	110.0	109.5	108.4	107.3	107.3	106.8	106.8	105.2
47.5°	70.8	70.2	68.1	68.6	69.7	68.6	67.1	69.2
50°	42.9	42.4	42.4	41.9	42.9	41.9	40.8	40.8
52.5°	24.1	24.1	23.6	23.6	23.6	23.6	23.1	22.5
55°	13.1	12.6	12.6	12.6	12.1	12.1	12.1	12.1
57.5°	8.4	8.4	8.4	8.4	8.4	8.4	7.8	7.8
60°	6.2	6.2	6.2	6.2	5.8	6.2	5.8	5.8
62.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
65°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
67.5°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
70°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
72.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	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



Report Generated By 670246072 / DESKTOP-50001EG





— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)