

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: P563960

Luminaire Tested: **LX6C05D010 EX6C059030 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P563960  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P252284)  
Test Lab: INNOVATION CENTER  
Issue Date: 2/15/2022  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: PORTFOLIO  
Catalog Number: LX6C05D010 EX6C059030 6LCSWH  
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LCSW TRIM WITH H FINISH, DIM TO WARM  
Light Source: -  
Ballast/Driver: -

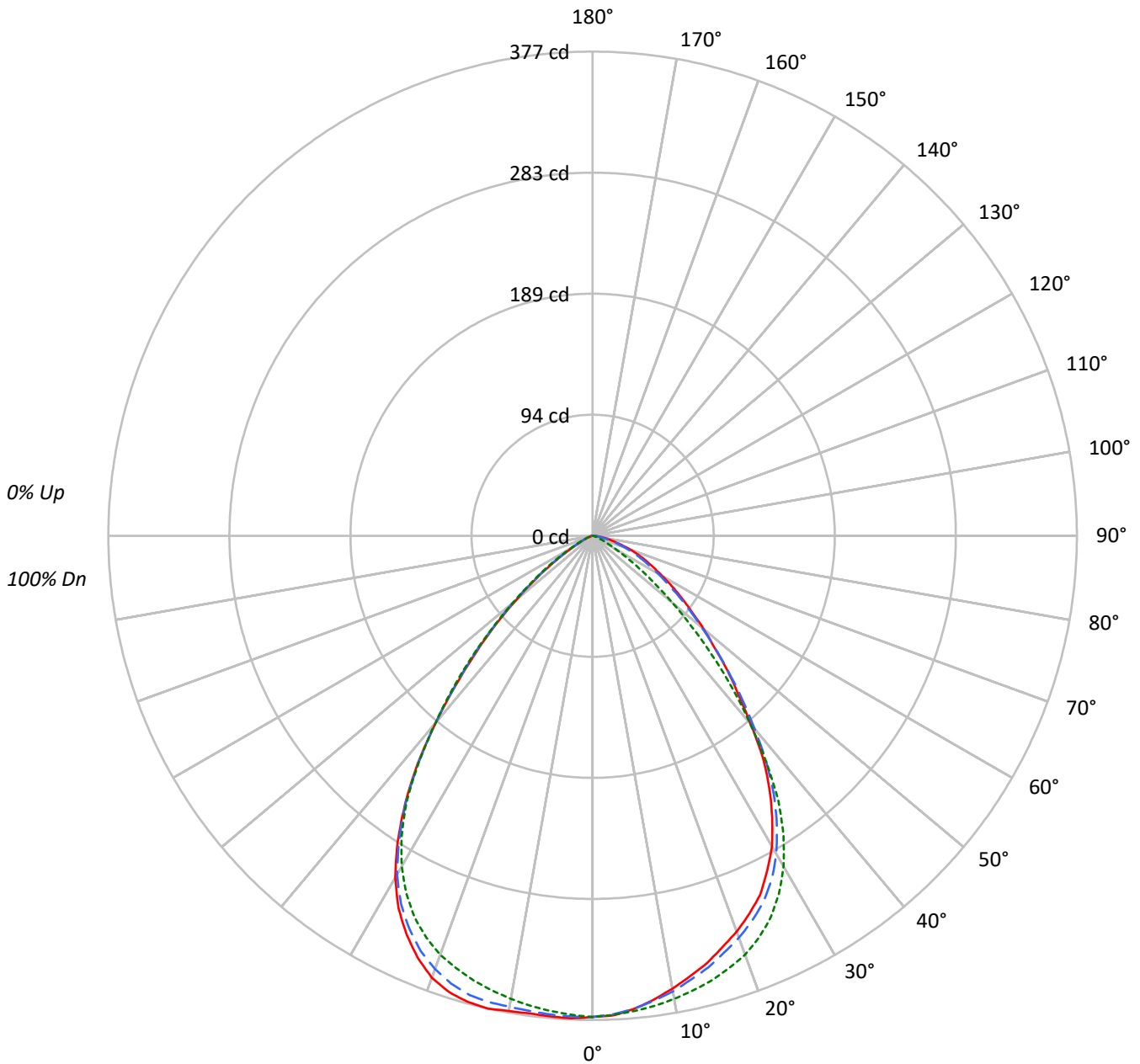
**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 628.6 lumens  
Efficiency: N/A  
Efficacy: 87.3 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 7.2  
Input Voltage (V):  
Input Current (A<sub>in</sub>): 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

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### Luminous Intensity Polar Plot





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**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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90			90
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80			80
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72			72
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64			64
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58			58
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52			52
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47			47
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43			43
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40			40
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37			37

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

	0°	90°	180°
0°	20541	20541	20541
5°	20350	20443	20675
10°	19928	20379	20914
15°	19546	20341	21322
20°	19135	20249	21358
25°	18666	19840	20723
30°	17674	18819	19452
35°	16055	16871	17019
40°	13697	13633	13568
45°	11505	10210	9900
50°	9612	6908	6558
55°	8086	4234	3852
60°	6853	2226	1930
65°	5928	1180	934
70°	4921	737	513
75°	3643	466	275
80°	2873	284	158
85°	2327	314	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.3	5.6
10°-20°	101.1	16.1
20°-30°	149.3	23.8
30°-40°	153.9	24.5
40°-50°	106.3	16.9
50°-60°	52.4	8.3
60°-70°	21.2	3.4
70°-80°	7.6	1.2
80°-90°	1.6	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°	285.7	45.5
0°-40°	439.6	69.9
0°-60°	598.3	95.2
0°-90°	628.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	628.6	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	375	375	375	375	375	
5°	370	370	372	374	376	35
15°	344	348	358	370	376	97
25°	309	314	328	338	343	141
35°	240	246	252	253	254	149
45°	148	149	132	130	128	115
55°	85	82	44	42	40	76
65°	46	41	9	7	7	45
75°	17	14	2	1	1	19
85°	4	3	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7
2.5°	373.8	372.4	373.3	371.5	373.8	371.5	372.0	372.4	372.0	372.4	372.9
5°	369.8	368.3	369.8	367.4	369.8	368.3	368.3	368.8	368.8	369.2	369.8
7.5°	364.3	362.9	364.3	362.0	364.8	363.3	363.3	364.3	363.9	364.3	365.2
10°	358.0	356.1	357.5	356.1	358.9	357.0	358.0	358.0	358.0	359.3	360.2
12.5°	351.1	349.3	351.1	348.9	351.6	350.2	350.7	352.1	352.6	353.5	353.9
15°	344.4	342.1	343.0	341.7	344.4	343.0	343.5	345.2	345.2	346.7	348.0
17.5°	335.8	333.9	335.8	333.9	336.2	335.4	336.2	337.6	337.6	338.9	340.3
20°	328.0	326.3	327.6	326.3	329.0	327.6	328.0	329.9	330.4	331.7	333.0
22.5°	318.6	317.3	318.1	316.8	319.5	318.6	319.0	320.8	321.3	322.2	324.5
25°	308.6	305.9	307.3	306.4	309.1	307.7	308.6	310.4	311.4	312.7	314.5
27.5°	294.2	292.8	293.7	293.7	295.9	294.6	295.1	296.9	298.2	299.6	301.8
30°	279.2	277.0	277.9	278.3	280.1	279.2	280.1	282.0	282.4	284.2	286.0
32.5°	260.2	259.3	261.1	260.2	261.1	261.1	261.5	262.9	263.9	264.8	267.0
35°	239.9	238.0	239.9	238.9	241.2	239.9	241.2	242.6	242.6	244.3	245.8
37.5°	217.7	215.4	216.4	216.4	217.2	216.8	216.8	219.0	219.5	220.8	222.2
40°	191.4	190.5	192.4	191.8	192.4	192.4	192.8	194.2	195.0	195.5	195.9
42.5°	167.9	168.3	168.8	168.8	168.8	168.8	168.8	170.6	170.2	171.5	172.0
45°	148.4	146.6	147.5	147.1	148.4	147.1	148.4	149.8	148.9	150.2	149.3
47.5°	128.5	128.5	128.5	128.1	129.0	128.5	129.4	129.9	129.9	129.9	129.4
50°	112.7	111.3	111.8	111.8	112.2	111.8	112.7	113.1	113.1	112.2	110.5
52.5°	97.2	96.8	96.8	97.8	97.8	97.2	97.2	97.2	97.2	95.9	95.0
55°	84.6	83.7	84.1	84.1	84.1	84.1	84.6	84.1	84.1	82.8	81.5
57.5°	73.3	72.4	72.4	72.4	72.8	72.4	72.4	72.4	71.9	70.6	68.8
60°	62.5	61.9	62.5	62.5	62.9	62.5	62.5	62.5	61.5	60.2	58.4
62.5°	53.4	53.4	53.4	53.8	53.8	53.4	53.4	52.9	52.5	50.7	48.8
65°	45.7	45.3	45.7	45.7	46.2	46.2	45.7	45.3	44.8	43.0	41.2
67.5°	38.0	37.5	38.0	38.0	38.5	38.0	38.0	38.0	36.6	35.7	34.0
70°	30.7	30.3	30.3	30.3	30.7	29.9	30.3	30.3	29.4	28.1	26.2
72.5°	23.5	23.5	23.5	23.5	23.5	23.5	23.1	23.1	22.2	20.9	19.9
75°	17.2	17.2	17.6	17.6	17.2	17.2	17.2	16.8	16.3	15.4	14.4
77.5°	12.7	12.7	12.7	12.7	12.2	12.2	12.2	11.8	11.3	10.9	10.0
80°	9.1	9.1	9.1	8.5	9.1	8.5	8.5	8.5	7.7	7.2	6.8
82.5°	6.3	5.9	5.9	5.9	5.9	5.9	5.9	5.4	5.4	5.0	4.6
85°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.2	2.7	2.7
87.5°	1.8	2.2	2.2	2.2	2.2	2.2	2.2	1.8	1.8	1.8	1.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7
2.5°	372.9	372.9	373.8	372.4	374.7	373.3	372.9	375.1	373.8	373.3	374.2
5°	369.8	370.2	370.7	369.8	372.0	370.7	370.7	372.9	372.0	371.5	372.9
7.5°	365.7	366.1	367.0	366.6	368.3	367.4	367.9	370.2	369.2	369.2	370.7
10°	360.7	361.6	362.5	362.5	364.8	363.9	363.9	366.6	365.7	366.1	367.9
12.5°	354.8	356.1	357.5	358.0	360.2	358.9	359.3	362.5	362.0	362.5	364.3
15°	348.5	350.2	351.6	351.6	354.3	353.0	354.3	357.5	356.6	358.4	360.7
17.5°	341.2	343.0	344.8	345.2	348.0	347.1	348.9	352.1	352.1	353.0	355.7
20°	334.5	336.7	337.6	338.9	341.7	341.2	342.1	345.7	345.7	347.1	349.8
22.5°	325.4	327.6	329.5	330.8	333.0	333.0	334.5	337.6	337.6	338.5	341.2
25°	315.4	318.1	319.5	320.8	323.1	322.7	324.0	326.7	327.1	328.0	330.8
27.5°	302.7	305.0	306.8	307.7	310.9	309.1	310.4	313.6	313.2	314.0	316.3
30°	287.0	289.2	291.0	291.0	293.7	293.7	295.1	296.4	296.4	297.3	299.2
32.5°	268.3	271.1	271.1	272.4	274.2	272.4	274.2	276.1	275.2	276.5	277.9
35°	247.1	248.4	248.9	248.9	250.2	249.8	249.3	250.7	249.8	252.1	253.4
37.5°	221.3	223.1	222.2	223.1	222.7	221.3	221.3	223.6	221.7	222.2	223.6
40°	196.4	196.4	195.9	193.7	194.2	192.8	192.4	192.8	190.9	190.5	192.4
42.5°	170.6	170.2	168.8	165.6	166.1	163.8	162.0	162.0	161.1	160.6	161.1
45°	147.5	146.2	143.9	140.3	139.4	137.5	134.0	133.0	131.7	131.7	132.1
47.5°	126.2	124.4	120.8	116.8	114.5	112.2	108.6	107.2	105.0	104.1	105.0
50°	108.6	105.5	100.9	95.0	92.8	90.0	86.5	84.1	81.9	81.0	80.6
52.5°	92.4	87.8	83.3	76.0	74.3	71.5	66.5	64.3	61.9	60.2	60.2
55°	78.3	74.3	67.8	61.1	58.4	55.6	50.7	47.5	45.3	44.3	43.4
57.5°	65.6	61.1	55.2	48.0	45.3	42.5	37.5	34.4	32.1	30.7	29.9
60°	55.2	50.2	44.3	38.0	34.9	32.1	27.2	24.0	21.7	20.3	19.4
62.5°	45.3	41.2	35.3	29.4	26.7	24.0	19.9	16.8	14.4	13.6	12.2
65°	38.0	34.0	28.5	23.5	21.3	18.5	15.0	12.2	10.4	9.1	8.1
67.5°	30.7	27.6	23.1	18.5	16.3	14.4	11.3	9.1	7.2	6.3	5.9
70°	24.4	21.3	17.6	14.0	12.7	10.9	8.5	6.3	5.4	4.6	4.1
72.5°	18.1	15.9	13.1	10.4	9.1	8.1	5.9	5.0	3.7	3.2	2.7
75°	13.1	11.3	9.5	7.2	6.3	5.9	4.6	3.2	2.7	2.2	1.8
77.5°	9.1	8.1	6.3	5.0	4.6	4.1	3.2	2.2	1.8	1.3	1.3
80°	5.9	5.0	4.1	3.2	3.2	2.7	1.8	1.3	1.3	0.9	0.9
82.5°	3.7	3.2	2.7	2.2	1.8	1.8	1.3	0.9	0.9	0.5	0.5
85°	2.2	1.8	1.3	1.3	0.9	0.9	0.9	0.5	0.5	0.5	0.5
87.5°	0.9	0.9	0.9	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: P563960

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**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7
2.5°	374.2	374.2	375.1	373.8	374.7	374.7	375.7	373.8	374.7	375.1	376.1
5°	372.4	372.9	373.8	373.3	373.8	373.8	374.7	372.4	374.2	374.2	375.7
7.5°	370.7	370.7	371.5	371.1	372.0	372.4	373.3	371.5	373.3	373.3	374.7
10°	368.3	368.3	369.8	369.2	370.7	371.1	372.4	370.7	372.4	372.9	374.2
12.5°	365.2	365.7	367.0	367.0	368.3	369.2	370.7	369.8	372.0	372.4	374.2
15°	361.6	362.5	364.3	363.9	365.2	366.6	368.3	367.0	370.2	371.1	372.9
17.5°	357.0	358.0	359.3	359.3	360.7	361.6	363.9	362.9	365.7	366.1	368.3
20°	350.2	351.6	353.5	353.0	354.3	355.2	357.0	356.1	358.9	359.8	362.0
22.5°	342.1	343.0	344.4	344.4	345.7	346.7	348.5	347.1	349.8	350.2	352.1
25°	331.3	332.1	333.0	333.5	334.9	335.4	336.2	335.4	337.6	338.0	340.3
27.5°	317.3	317.7	319.0	319.0	319.9	320.4	321.7	319.9	323.1	323.1	324.5
30°	300.5	300.1	301.8	300.9	301.8	301.8	303.2	302.3	304.5	303.6	305.0
32.5°	278.3	279.2	279.2	278.3	280.1	279.6	279.6	278.8	280.1	280.5	281.5
35°	252.6	253.9	253.9	254.3	254.8	253.4	253.9	251.1	253.4	253.9	254.3
37.5°	224.5	223.1	224.0	222.7	224.9	222.2	222.2	220.4	222.2	222.2	222.7
40°	192.4	191.8	192.8	191.8	191.4	190.9	190.1	188.7	190.5	189.6	190.9
42.5°	162.0	161.5	161.5	160.6	160.2	160.2	159.3	158.4	158.0	158.0	160.2
45°	130.8	131.7	130.8	130.3	131.2	130.3	130.8	129.0	129.9	129.0	129.9
47.5°	104.6	105.0	104.1	103.1	104.6	103.1	103.1	101.8	103.7	103.7	102.7
50°	81.0	80.6	79.6	80.6	80.1	80.1	80.1	78.7	79.6	78.3	79.2
52.5°	59.7	59.3	59.3	58.8	59.3	58.8	58.8	58.4	58.4	57.9	58.4
55°	43.4	43.0	42.1	42.1	42.1	42.5	42.1	41.6	41.6	41.2	41.6
57.5°	29.4	28.5	28.5	28.5	28.5	28.1	28.1	27.6	28.1	27.6	28.1
60°	19.0	19.0	18.1	18.1	18.1	18.1	18.1	17.6	18.1	18.1	18.1
62.5°	11.8	11.8	11.3	10.9	11.3	10.9	10.9	10.9	11.3	10.9	11.3
65°	7.7	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
67.5°	5.4	5.0	5.0	5.0	5.0	5.0	5.0	4.6	5.0	5.0	5.0
70°	3.7	3.7	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	1.8	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	1.3	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	0.9	0.9	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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: P563960

CATALOG NUMBER: LX6C05D010 EX6C059030 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	374.7	374.7	374.7	374.7	374.7	374.7	374.7	374.7
2.5°	374.7	375.1	374.2	374.7	373.8	374.7	375.1	376.1
5°	373.8	374.2	373.3	374.2	373.3	374.2	374.7	375.7
7.5°	372.9	373.8	372.9	373.8	372.9	373.8	374.2	375.1
10°	372.9	374.2	373.3	374.7	373.3	374.2	375.1	375.7
12.5°	372.9	374.2	373.8	374.7	374.2	375.1	376.1	377.0
15°	372.0	373.3	372.4	373.8	373.3	373.8	375.7	375.7
17.5°	367.0	368.3	368.3	369.2	369.2	370.7	371.5	372.4
20°	360.7	362.0	361.6	362.9	362.9	364.3	365.2	366.1
22.5°	351.1	353.0	352.6	353.9	353.5	354.3	356.1	355.7
25°	338.9	341.2	340.8	341.7	341.2	341.2	342.1	342.6
27.5°	324.0	325.4	324.9	325.8	324.9	325.8	326.7	327.1
30°	304.5	305.5	305.0	305.5	305.0	305.9	306.4	307.3
32.5°	281.1	282.4	281.1	282.0	281.5	281.5	283.3	282.4
35°	253.0	253.4	253.9	253.9	253.0	253.4	254.3	254.3
37.5°	221.7	224.0	221.3	222.7	222.2	222.2	222.2	223.6
40°	189.2	189.6	188.7	188.7	188.7	188.3	190.1	189.6
42.5°	158.4	158.9	158.4	157.1	157.5	157.5	158.9	157.1
45°	128.5	129.4	129.0	129.0	128.1	128.1	128.5	127.7
47.5°	101.8	102.7	101.4	101.8	100.9	101.8	101.4	102.2
50°	77.4	78.3	77.8	78.3	78.3	77.4	78.7	76.9
52.5°	57.9	58.4	57.9	57.5	57.1	57.1	57.9	57.5
55°	41.2	40.7	40.7	40.7	41.2	41.2	40.7	40.3
57.5°	27.6	27.6	27.2	27.2	27.6	26.7	27.2	26.7
60°	17.6	17.6	17.6	17.6	17.2	17.6	17.6	17.6
62.5°	10.9	10.9	10.9	10.9	10.9	10.9	10.9	10.9
65°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
67.5°	4.6	5.0	5.0	5.0	4.6	4.6	4.6	4.6
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
80°	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	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	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)