

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: P684346

Luminaire Tested: **LX6C05D010 EX6C059035 6LCSWH**

Issue Date: 2/15/2022



**Test Information**

Test Method: LM-79-08  
Report Number: P684346  
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 EX6C059035 6LCSWH  
Description: 6 INCH 500 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 6LCSW TRIM WITH H FINISH  
Light Source: -  
Ballast/Driver: -

**Summary**

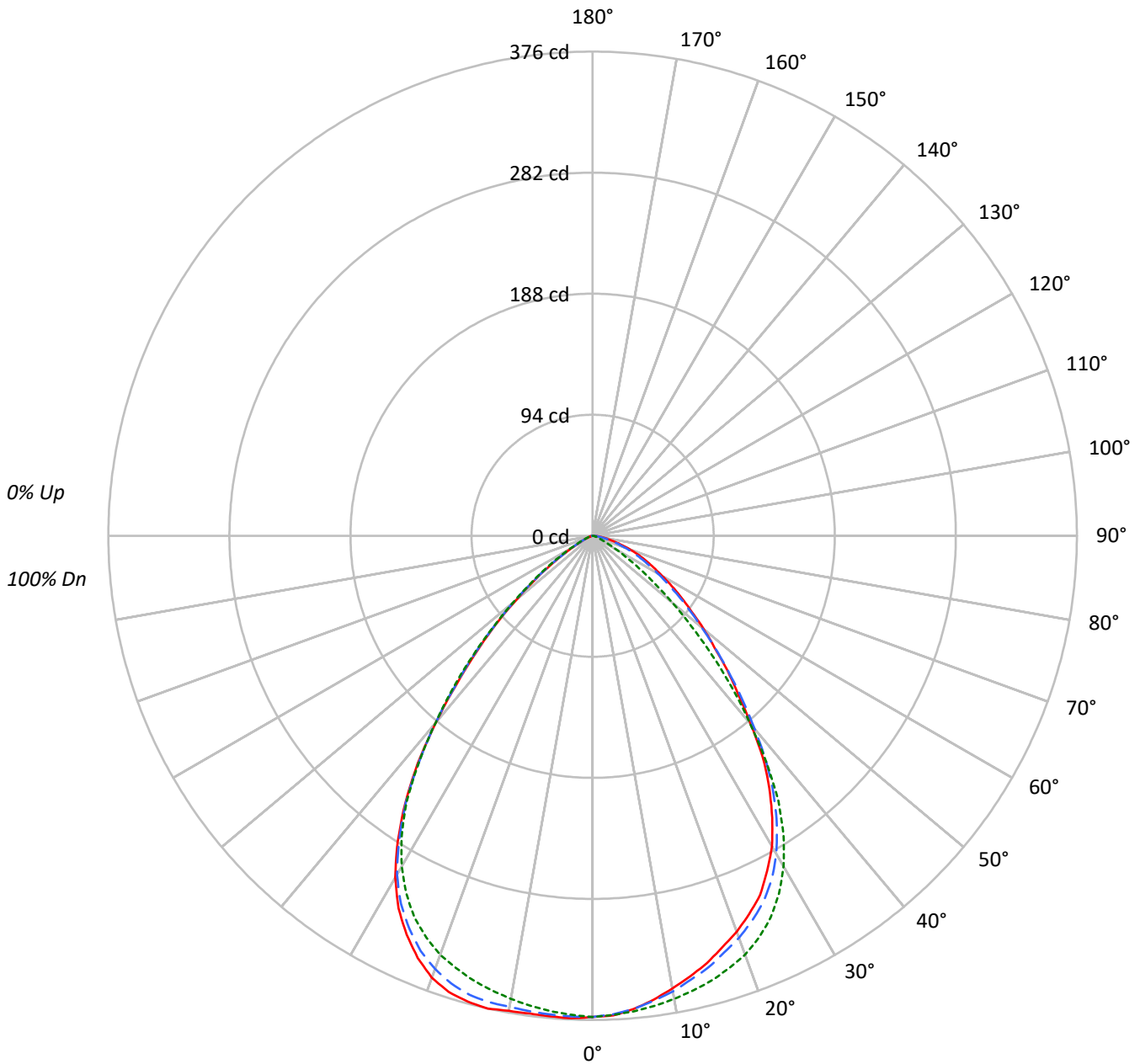
Lumens per Lamp: N/A  
Luminaire Lumens: 627.0 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16  
Luminous Opening: Circular (Dia: 0.5' x H: 0')  
CIE Type: Direct

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

TEST NUMBER: P684346

CATALOG NUMBER: LX6C05D010 EX6C059035 6LCSWH

### Luminous Intensity Polar Plot





TEST NUMBER: P684346

CATALOG NUMBER: LX6C05D010 EX6C059035 6LCSWH

**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	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	69	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

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

	0°	90°	180°
0°	20486	20486	20486
5°	20295	20394	20614
10°	19873	20324	20852
15°	19495	20290	21260
20°	19088	20197	21299
25°	18618	19791	20669
30°	17629	18769	19402
35°	16008	16824	16978
40°	13661	13597	13532
45°	11474	10179	9869
50°	9586	6891	6541
55°	8067	4224	3842
60°	6831	2226	1930
65°	5915	1167	934
70°	4921	721	513
75°	3643	487	297
80°	2841	284	158
85°	2264	314	0



TEST NUMBER: P684346

CATALOG NUMBER: LX6C05D010 EX6C059035 6LCSWH

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	35.2	5.6
10°-20°	100.8	16.1
20°-30°	148.9	23.8
30°-40°	153.5	24.5
40°-50°	106.0	16.9
50°-60°	52.2	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°	285.0	45.5
0°-40°	438.5	69.9
0°-60°	596.7	95.2
0°-90°	627.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	627.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	374	374	374	374	374	
5°	369	369	371	373	375	35
15°	344	347	358	369	375	97
25°	308	314	327	337	342	141
35°	239	245	251	253	254	148
45°	148	149	131	130	127	114
55°	84	81	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	



TEST NUMBER: P684346

CATALOG NUMBER: LX6C05D010 EX6C059035 6LCSWH

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7
2.5°	372.8	371.5	372.4	370.6	372.8	370.6	371.0	371.5	371.0	371.5	371.9
5°	368.8	367.4	368.8	366.5	368.8	367.4	367.4	367.9	367.9	368.3	368.8
7.5°	363.3	362.0	363.3	361.1	363.8	362.5	362.5	363.3	362.9	363.3	364.2
10°	357.0	355.2	356.6	355.2	357.9	356.1	357.0	357.0	357.0	358.4	359.3
12.5°	350.3	348.4	350.3	348.0	350.7	349.4	349.8	351.2	351.6	352.5	353.0
15°	343.5	341.2	342.1	340.8	343.5	342.1	342.6	344.4	344.4	345.7	347.1
17.5°	334.9	333.1	334.9	333.1	335.4	334.5	335.4	336.7	336.7	338.1	339.4
20°	327.2	325.4	326.8	325.4	328.1	326.8	327.2	329.0	329.5	330.8	332.2
22.5°	317.8	316.4	317.3	316.0	318.7	317.8	318.2	320.0	320.5	321.4	323.6
25°	307.8	305.1	306.5	305.6	308.3	306.9	307.8	309.6	310.5	311.9	313.7
27.5°	293.4	292.0	292.9	292.9	295.2	293.8	294.3	296.1	297.4	298.8	301.1
30°	278.5	276.2	277.1	277.6	279.4	278.5	279.4	281.2	281.7	283.5	285.3
32.5°	259.5	258.6	260.4	259.5	260.4	260.4	260.9	262.2	263.1	264.1	266.3
35°	239.2	237.4	239.2	238.3	240.6	239.2	240.6	241.9	241.9	243.7	245.1
37.5°	217.1	214.8	215.7	215.7	216.6	216.2	216.2	218.5	218.9	220.3	221.6
40°	190.9	190.0	191.8	191.4	191.8	191.8	192.3	193.6	194.5	195.0	195.4
42.5°	167.5	167.9	168.4	168.4	168.4	168.4	168.4	170.2	169.7	171.1	171.5
45°	148.0	146.2	147.1	146.7	148.0	146.7	148.0	149.4	148.5	149.9	148.9
47.5°	128.2	128.2	128.2	127.7	128.6	128.2	129.1	129.5	129.5	129.5	129.1
50°	112.4	111.0	111.5	111.5	111.9	111.5	112.4	112.8	112.8	111.9	110.1
52.5°	97.0	96.6	96.6	97.5	97.5	97.0	97.0	97.0	97.0	95.7	94.8
55°	84.4	83.5	84.0	84.0	84.0	84.0	84.4	84.0	84.0	82.6	81.3
57.5°	73.1	72.2	72.2	72.2	72.7	72.2	72.2	72.2	71.8	70.4	68.6
60°	62.3	61.8	62.3	62.3	62.7	62.3	62.3	62.3	61.4	60.0	58.2
62.5°	53.3	53.3	53.3	53.7	53.7	53.3	53.3	52.8	52.4	50.5	48.7
65°	45.6	45.1	45.6	45.6	46.0	46.0	45.6	45.1	44.7	42.9	41.1
67.5°	37.9	37.5	37.9	37.9	38.4	37.9	37.9	37.9	36.6	35.7	33.8
70°	30.7	30.2	30.2	30.2	30.7	29.8	30.2	30.2	29.3	28.0	26.2
72.5°	23.5	23.5	23.5	23.5	23.5	23.5	23.0	23.0	22.1	20.8	19.9
75°	17.2	17.2	17.6	17.6	17.2	17.2	17.2	16.7	16.2	15.3	14.4
77.5°	12.6	12.6	12.6	12.6	12.2	12.2	12.2	11.7	11.3	10.8	9.9
80°	9.0	9.0	9.0	8.6	9.0	8.6	8.6	8.6	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	4.5
85°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.2	2.7	2.7
87.5°	1.8	2.3	2.3	2.3	2.3	2.3	2.3	1.8	1.8	1.8	1.4
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: P684346

CATALOG NUMBER: LX6C05D010 EX6C059035 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7
2.5°	371.9	371.9	372.8	371.5	373.7	372.4	371.9	374.2	372.8	372.4	373.3
5°	368.8	369.2	369.7	368.8	371.0	369.7	369.7	371.9	371.0	370.6	371.9
7.5°	364.7	365.1	366.0	365.6	367.4	366.5	367.0	369.2	368.3	368.3	369.7
10°	359.7	360.6	361.6	361.6	363.8	362.9	362.9	365.6	364.7	365.1	367.0
12.5°	353.9	355.2	356.6	357.0	359.3	357.9	358.4	361.6	361.1	361.6	363.3
15°	347.5	349.4	350.7	350.7	353.4	352.1	353.4	356.6	355.7	357.5	359.7
17.5°	340.3	342.1	343.9	344.4	347.1	346.2	348.0	351.2	351.2	352.1	354.8
20°	333.6	335.8	336.7	338.1	340.8	340.3	341.2	344.8	344.8	346.2	348.9
22.5°	324.5	326.8	328.6	329.9	332.2	332.2	333.6	336.7	336.7	337.6	340.3
25°	314.6	317.3	318.7	320.0	322.3	321.8	323.2	325.9	326.3	327.2	329.9
27.5°	302.0	304.2	306.0	306.9	310.1	308.3	309.6	312.8	312.3	313.2	315.5
30°	286.2	288.4	290.2	290.2	292.9	292.9	294.3	295.6	295.6	296.5	298.4
32.5°	267.7	270.4	270.4	271.7	273.5	271.7	273.5	275.3	274.4	275.8	277.1
35°	246.4	247.8	248.3	248.3	249.6	249.2	248.7	250.1	249.2	251.4	252.8
37.5°	220.7	222.5	221.6	222.5	222.1	220.7	220.7	223.0	221.2	221.6	223.0
40°	195.9	195.9	195.4	193.2	193.6	192.3	191.8	192.3	190.5	190.0	191.8
42.5°	170.2	169.7	168.4	165.2	165.6	163.4	161.6	161.6	160.7	160.2	160.7
45°	147.1	145.8	143.5	139.9	139.0	137.2	133.6	132.7	131.3	131.3	131.8
47.5°	125.9	124.1	120.5	116.5	114.2	111.9	108.3	107.0	104.7	103.8	104.7
50°	108.3	105.2	100.7	94.8	92.5	89.8	86.2	84.0	81.7	80.8	80.3
52.5°	92.1	87.6	83.1	75.8	74.0	71.3	66.3	64.1	61.8	60.0	60.0
55°	78.1	74.0	67.7	60.9	58.2	55.5	50.5	47.4	45.1	44.2	43.3
57.5°	65.4	60.9	55.1	47.8	45.1	42.4	37.5	34.3	32.0	30.7	29.8
60°	55.1	50.1	44.2	37.9	34.8	32.0	27.1	23.9	21.7	20.3	19.4
62.5°	45.1	41.1	35.2	29.3	26.6	23.9	19.9	16.7	14.4	13.5	12.2
65°	37.9	33.8	28.4	23.5	21.2	18.5	14.9	12.2	10.4	9.0	8.1
67.5°	30.7	27.5	23.0	18.5	16.2	14.4	11.3	9.0	7.2	6.3	5.9
70°	24.4	21.2	17.6	14.0	12.6	10.8	8.6	6.3	5.4	4.5	4.1
72.5°	18.1	15.8	13.1	10.4	9.0	8.1	5.9	5.0	3.6	3.2	2.7
75°	13.1	11.3	9.5	7.2	6.3	5.9	4.5	3.2	2.7	2.3	1.8
77.5°	9.0	8.1	6.3	5.0	4.5	4.1	3.2	2.3	1.8	1.4	1.4
80°	5.9	5.0	4.1	3.2	3.2	2.7	1.8	1.4	1.4	0.9	0.9
82.5°	3.6	3.2	2.7	2.3	1.8	1.8	1.4	0.9	0.9	0.5	0.5
85°	2.3	1.8	1.4	1.4	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: P684346

CATALOG NUMBER: LX6C05D010 EX6C059035 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7
2.5°	373.3	373.3	374.2	372.8	373.7	373.7	374.6	372.8	373.7	374.2	375.1
5°	371.5	371.9	372.8	372.4	372.8	372.8	373.7	371.5	373.3	373.3	374.6
7.5°	369.7	369.7	370.6	370.1	371.0	371.5	372.4	370.6	372.4	372.4	373.7
10°	367.4	367.4	368.8	368.3	369.7	370.1	371.5	369.7	371.5	371.9	373.3
12.5°	364.2	364.7	366.0	366.0	367.4	368.3	369.7	368.8	371.0	371.5	373.3
15°	360.6	361.6	363.3	362.9	364.2	365.6	367.4	366.0	369.2	370.1	371.9
17.5°	356.1	357.0	358.4	358.4	359.7	360.6	362.9	362.0	364.7	365.1	367.4
20°	349.4	350.7	352.5	352.1	353.4	354.3	356.1	355.2	357.9	358.8	361.1
22.5°	341.2	342.1	343.5	343.5	344.8	345.7	347.5	346.2	348.9	349.4	351.2
25°	330.4	331.3	332.2	332.7	334.0	334.5	335.4	334.5	336.7	337.2	339.4
27.5°	316.4	316.9	318.2	318.2	319.1	319.6	320.9	319.1	322.3	322.3	323.6
30°	299.7	299.3	301.1	300.2	301.1	301.1	302.4	301.5	303.8	302.9	304.2
32.5°	277.6	278.5	278.5	277.6	279.4	278.9	278.9	278.0	279.4	279.8	280.7
35°	251.9	253.2	253.2	253.7	254.1	252.8	253.2	250.5	252.8	253.2	253.7
37.5°	223.9	222.5	223.4	222.1	224.3	221.6	221.6	219.8	221.6	221.6	222.1
40°	191.8	191.4	192.3	191.4	190.9	190.5	189.6	188.2	190.0	189.1	190.5
42.5°	161.6	161.1	161.1	160.2	159.8	159.8	158.9	158.0	157.5	157.5	159.8
45°	130.4	131.3	130.4	130.0	130.9	130.0	130.4	128.6	129.5	128.6	129.5
47.5°	104.3	104.7	103.8	102.9	104.3	102.9	102.9	101.6	103.4	103.4	102.5
50°	80.8	80.3	79.4	80.3	79.9	79.9	79.9	78.5	79.4	78.1	79.0
52.5°	59.6	59.1	59.1	58.7	59.1	58.7	58.7	58.2	58.2	57.8	58.2
55°	43.3	42.9	42.0	42.0	42.0	42.4	42.0	41.5	41.5	41.1	41.5
57.5°	29.3	28.4	28.4	28.4	28.4	28.0	28.0	27.5	28.0	27.5	28.0
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°	11.7	11.7	11.3	10.8	11.3	10.8	10.8	10.8	11.3	10.8	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	4.5	5.0	5.0	5.0
70°	3.6	3.6	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	1.8	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
77.5°	1.4	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: P684346

CATALOG NUMBER: LX6C05D010 EX6C059035 6LCSWH

**CANDELA DISTRIBUTION (continued):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	373.7	373.7	373.7	373.7	373.7	373.7	373.7	373.7
2.5°	373.7	374.2	373.3	373.7	372.8	373.7	374.2	375.1
5°	372.8	373.3	372.4	373.3	372.4	373.3	373.7	374.6
7.5°	371.9	372.8	371.9	372.8	371.9	372.8	373.3	374.2
10°	371.9	373.3	372.4	373.7	372.4	373.3	374.2	374.6
12.5°	371.9	373.3	372.8	373.7	373.3	374.2	375.1	376.0
15°	371.0	372.4	371.5	372.8	372.4	372.8	374.6	374.6
17.5°	366.0	367.4	367.4	368.3	368.3	369.7	370.6	371.5
20°	359.7	361.1	360.6	362.0	362.0	363.3	364.2	365.1
22.5°	350.3	352.1	351.6	353.0	352.5	353.4	355.2	354.8
25°	338.1	340.3	339.9	340.8	340.3	340.3	341.2	341.7
27.5°	323.2	324.5	324.1	325.0	324.1	325.0	325.9	326.3
30°	303.8	304.7	304.2	304.7	304.2	305.1	305.6	306.5
32.5°	280.3	281.7	280.3	281.2	280.7	280.7	282.6	281.7
35°	252.3	252.8	253.2	253.2	252.3	252.8	253.7	253.7
37.5°	221.2	223.4	220.7	222.1	221.6	221.6	221.6	223.0
40°	188.7	189.1	188.2	188.2	188.2	187.8	189.6	189.1
42.5°	158.0	158.4	158.0	156.6	157.1	157.1	158.4	156.6
45°	128.2	129.1	128.6	128.6	127.7	127.7	128.2	127.3
47.5°	101.6	102.5	101.1	101.6	100.7	101.6	101.1	102.0
50°	77.2	78.1	77.6	78.1	78.1	77.2	78.5	76.7
52.5°	57.8	58.2	57.8	57.3	56.9	56.9	57.8	57.3
55°	41.1	40.6	40.6	40.6	41.1	41.1	40.6	40.2
57.5°	27.5	27.5	27.1	27.1	27.5	26.6	27.1	26.6
60°	17.6	17.6	17.6	17.6	17.2	17.6	17.6	17.6
62.5°	10.8	10.8	10.8	10.8	10.8	10.8	10.8	10.8
65°	7.2	7.2	7.2	7.2	7.2	7.2	7.2	7.2
67.5°	4.5	5.0	5.0	5.0	4.5	4.5	4.5	4.5
70°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2
72.5°	2.3	2.3	2.3	2.3	2.3	2.3	2.3	2.3
75°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)