

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: P684106

Luminaire Tested: **LX6C20D010 EX6C209035 6LBLWWH**

Issue Date: 2/15/2022



Test Information

Test Method: LM-79-08
Report Number: P684106
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C20D010 EX6C209035 6LBLWWH
Description: 6 INCH 2000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

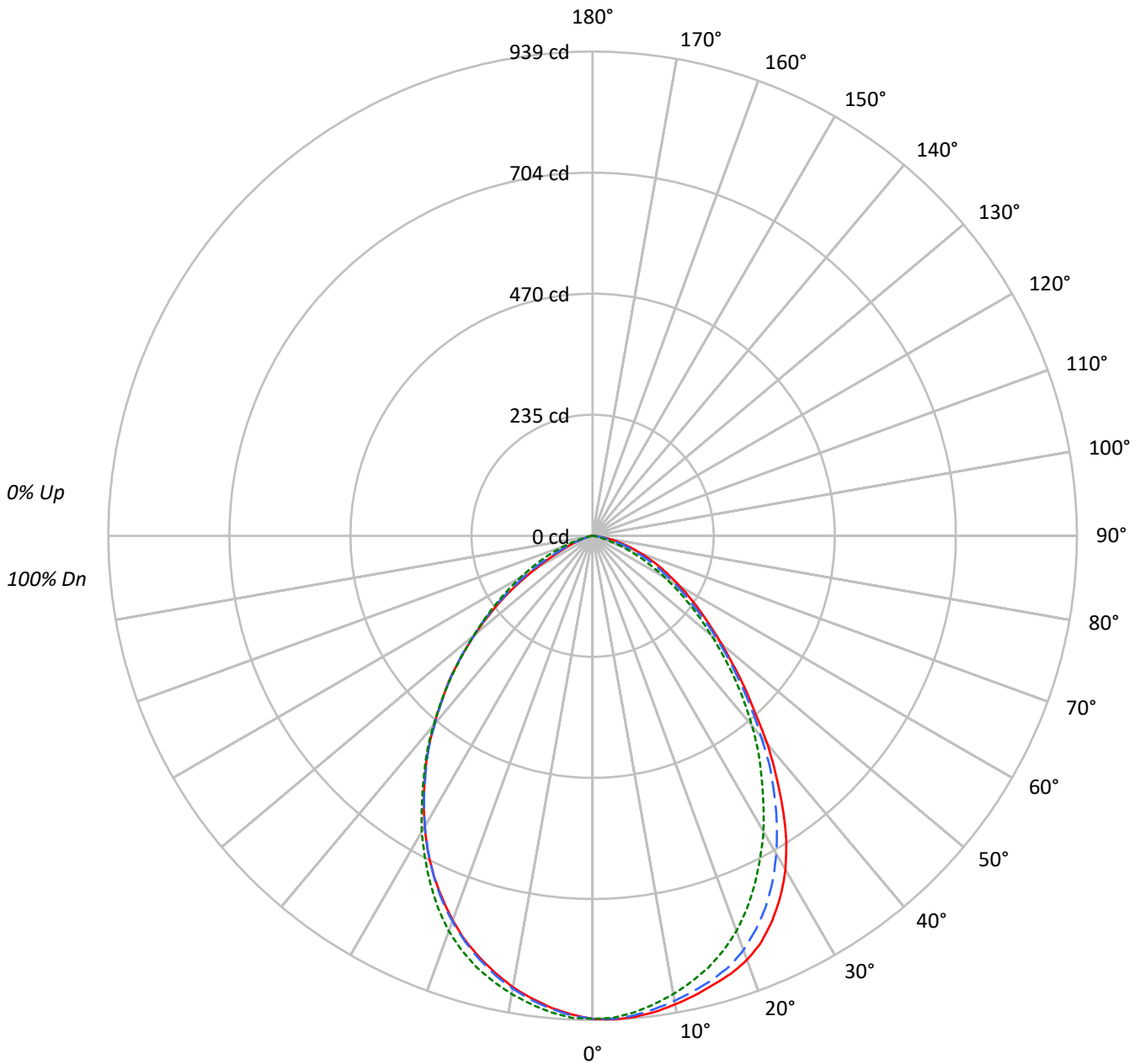
Lumens per Lamp: N/A
Luminaire Lumens: 1704.0 lumens
Efficiency: N/A
Efficacy: 78.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 21.8
Input Voltage (V):
Input Current (A_{in}): 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: P684106

CATALOG NUMBER: LX6C20D010 EX6C209035 6LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P684106

CATALOG NUMBER: LX6C20D010 EX6C209035 6LBLWWH

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	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89			89
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78			78
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68			68
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60			60
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54			54
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			48
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43			43
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39			39
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36			36
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33			33

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	51356	51356	51356
5°	51535	51067	50561
10°	51374	50238	49498
15°	51181	49200	48054
20°	51069	47581	46309
25°	49823	45027	44035
30°	47343	41937	41241
35°	42971	38186	37932
40°	37699	34364	34185
45°	32321	30026	30274
50°	27820	25594	25458
55°	24315	21610	20281
60°	21369	17707	13848
65°	18705	13724	8328
70°	15948	9232	4889
75°	12878	4808	2669
80°	8934	1894	1484
85°	3585	566	818



TEST NUMBER: P684106

CATALOG NUMBER: LX6C20D010 EX6C209035 6LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.8	5.2
10°-20°	245.1	14.4
20°-30°	348.8	20.5
30°-40°	367.1	21.5
40°-50°	306.0	18.0
50°-60°	206.7	12.1
60°-70°	104.8	6.2
70°-80°	33.8	2.0
80°-90°	3.9	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°	681.7	40.0
0°-40°	1048.8	61.6
0°-60°	1561.5	91.6
0°-90°	1704.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1704.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	937	937	937	937	937	
5°	936	934	928	921	919	89
15°	902	892	867	850	847	255
25°	824	794	744	729	728	378
35°	642	614	571	565	567	400
45°	417	406	387	389	390	323
55°	254	242	226	219	212	229
65°	144	130	106	76	64	144
75°	61	48	23	12	13	66
85°	6	3	1	1	1	10
90°	0	0	0	0	0	



TEST NUMBER: P684106

CATALOG NUMBER: LX6C20D010 EX6C209035 6LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8
2.5°	939.0	939.0	939.0	939.0	939.0	939.0	938.7	938.7	938.1	938.1	937.7
5°	936.5	936.8	936.8	936.5	936.5	935.9	935.9	935.5	934.6	934.0	933.6
7.5°	931.1	931.1	930.8	930.5	930.2	929.2	928.9	928.0	927.3	926.7	925.5
10°	922.9	922.9	922.6	922.0	921.7	921.1	921.1	919.8	918.5	917.0	916.0
12.5°	913.2	913.5	912.9	912.5	911.6	911.3	910.7	909.1	908.1	906.3	904.7
15°	901.8	902.5	902.5	901.2	900.3	900.0	899.0	898.1	895.9	894.0	892.1
17.5°	890.8	891.5	890.8	889.9	888.9	887.7	887.0	885.2	882.3	879.8	877.0
20°	875.4	876.3	875.1	873.5	871.6	871.3	870.4	867.2	863.1	859.3	855.2
22.5°	853.7	853.0	852.1	851.5	848.3	846.4	845.2	841.1	836.7	831.6	826.6
25°	823.7	825.0	823.1	820.3	818.7	816.8	813.7	809.3	805.2	799.8	793.8
27.5°	788.5	788.5	786.0	785.0	781.6	779.0	777.5	773.1	767.7	762.3	755.7
30°	747.9	746.0	746.0	741.6	738.7	737.8	736.2	729.0	724.2	718.6	712.0
32.5°	698.7	698.4	697.2	694.3	690.6	687.4	687.4	682.4	676.1	669.1	665.0
35°	642.1	642.4	641.7	638.6	638.6	634.8	634.2	629.8	624.7	619.4	614.3
37.5°	583.5	584.7	583.5	581.9	581.0	580.7	577.8	574.7	570.9	567.7	564.0
40°	526.8	524.9	525.5	522.4	522.7	522.1	520.8	516.7	514.5	511.4	507.3
42.5°	465.7	467.6	468.2	466.4	465.7	464.5	465.7	464.1	461.6	460.1	456.3
45°	416.9	415.0	416.0	415.3	415.7	413.1	412.2	411.6	410.6	407.8	406.2
47.5°	368.4	368.7	368.4	367.2	366.5	366.5	365.3	363.4	363.4	361.5	360.2
50°	326.2	326.2	326.9	325.3	324.7	323.4	323.7	321.8	320.6	319.0	318.0
52.5°	287.5	287.8	286.5	286.9	286.2	286.2	285.0	283.7	282.5	279.6	279.0
55°	254.4	254.7	253.2	253.8	251.9	251.0	250.3	248.4	248.4	245.6	242.1
57.5°	223.6	223.3	222.9	222.0	220.7	219.8	218.8	216.6	215.7	213.8	211.0
60°	194.9	194.6	194.0	193.7	192.7	190.5	190.5	188.9	185.8	183.9	181.1
62.5°	167.8	167.8	167.5	166.6	165.6	164.7	164.1	162.8	159.6	157.4	154.9
65°	144.2	143.9	143.0	141.4	140.8	140.8	138.6	137.6	135.1	132.9	130.0
67.5°	121.5	120.3	119.7	120.0	118.1	118.1	116.2	114.6	112.4	108.6	106.4
70°	99.5	98.9	98.2	97.6	97.3	96.0	95.1	93.2	91.0	88.2	84.7
72.5°	79.7	79.7	78.7	78.1	77.1	75.9	75.3	73.7	71.2	68.0	65.5
75°	60.8	60.8	60.8	59.5	58.9	58.3	56.4	55.4	52.6	50.7	47.5
77.5°	44.7	44.1	43.1	42.8	42.2	41.6	40.6	39.0	36.5	34.3	32.4
80°	28.3	29.3	28.3	28.3	26.8	26.1	25.8	23.9	23.0	21.1	19.5
82.5°	15.7	16.1	15.4	15.1	14.2	13.9	13.9	12.6	12.0	10.7	9.8
85°	5.7	6.0	5.7	5.7	5.0	5.4	5.0	4.7	4.1	3.5	3.1
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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: P684106

CATALOG NUMBER: LX6C20D010 EX6C209035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8
2.5°	937.7	937.1	937.1	936.8	936.5	936.5	936.5	936.2	935.5	935.5	935.2
5°	933.0	932.4	931.4	930.8	930.5	930.2	929.9	929.6	928.3	928.0	927.0
7.5°	924.5	923.9	922.3	921.7	920.7	920.4	919.2	918.5	917.3	916.0	915.4
10°	914.4	912.9	911.6	910.0	909.4	908.5	906.9	905.0	904.0	902.5	901.2
12.5°	903.1	901.2	898.7	896.8	896.2	894.6	892.1	890.5	888.3	885.8	883.6
15°	888.9	886.7	884.5	881.1	880.1	878.2	875.7	872.6	869.4	866.9	864.4
17.5°	873.5	870.0	866.6	862.8	860.0	859.0	854.9	850.5	847.7	843.3	840.4
20°	851.8	847.1	841.4	837.6	835.1	832.3	827.5	822.8	819.3	815.6	811.5
22.5°	821.9	817.5	810.8	805.2	803.3	799.2	795.1	790.7	786.3	782.2	777.1
25°	786.6	781.9	775.3	769.6	766.4	764.6	756.7	752.3	747.9	744.4	740.9
27.5°	750.4	741.9	737.5	728.7	725.8	725.2	717.9	713.2	708.5	703.8	699.4
30°	705.7	699.1	692.4	686.1	682.4	680.2	674.8	668.8	665.7	662.5	658.1
32.5°	659.4	653.4	645.2	639.2	636.4	633.2	628.5	624.4	619.7	616.2	615.3
35°	609.9	603.3	596.4	592.0	591.4	587.6	582.9	579.4	575.9	570.6	569.6
37.5°	557.0	553.3	548.5	542.2	539.4	539.4	534.7	532.2	527.8	527.4	524.9
40°	505.1	503.5	496.3	494.4	493.7	489.3	488.1	483.7	480.5	480.2	476.4
42.5°	453.8	449.7	448.4	445.3	442.4	441.8	439.0	437.1	435.8	433.9	432.0
45°	402.7	401.8	398.6	396.4	395.5	394.2	393.3	389.5	388.9	387.3	386.4
47.5°	358.7	356.1	353.3	350.8	350.5	348.6	346.4	346.4	342.9	342.6	342.0
50°	314.9	313.0	311.4	308.0	308.6	306.1	305.8	302.9	301.3	300.1	301.7
52.5°	276.5	272.7	272.1	269.2	268.3	268.6	265.1	264.2	263.6	262.3	261.7
55°	239.9	238.1	235.5	233.6	232.1	230.5	229.2	229.2	225.8	226.1	224.5
57.5°	207.8	206.3	203.1	200.3	199.6	197.8	196.2	194.6	194.3	192.1	190.5
60°	179.2	176.3	172.2	171.0	169.1	167.5	165.9	164.1	163.1	161.5	158.7
62.5°	152.4	147.7	146.1	143.6	141.4	140.4	137.9	135.7	134.1	131.9	129.7
65°	126.9	123.4	120.6	117.8	117.5	114.9	112.7	110.8	107.7	105.8	101.7
67.5°	103.6	100.4	97.3	94.5	92.3	91.6	88.2	86.0	83.8	80.0	76.5
70°	82.2	79.0	76.5	73.1	72.1	69.6	67.1	64.9	61.1	57.6	54.8
72.5°	62.7	59.2	56.4	53.8	52.3	50.1	47.5	45.0	41.3	37.8	35.3
75°	44.7	42.2	39.4	36.8	35.6	34.3	31.5	28.7	26.1	22.7	20.5
77.5°	30.2	27.7	25.2	23.0	21.4	20.5	18.6	16.4	14.2	12.3	10.7
80°	17.6	16.1	14.2	12.3	12.0	11.0	9.4	8.2	6.9	6.0	4.7
82.5°	8.5	7.6	6.3	5.4	4.7	4.4	3.8	3.1	2.5	2.2	2.2
85°	2.5	2.2	1.9	1.6	1.3	1.3	0.9	0.9	0.9	0.9	0.9
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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: P684106

CATALOG NUMBER: LX6C20D010 EX6C209035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8
2.5°	934.3	934.0	933.6	933.3	932.7	932.7	931.8	931.1	931.1	930.5	930.2
5°	926.1	925.1	924.8	924.2	923.6	923.3	922.0	921.7	921.1	920.4	920.4
7.5°	914.4	913.2	911.9	911.3	911.0	910.0	909.4	909.1	908.1	907.5	906.3
10°	899.0	898.1	896.5	895.9	895.2	894.6	893.0	892.1	891.8	891.1	890.5
12.5°	881.1	879.8	878.2	877.0	876.3	875.4	873.8	872.9	872.9	871.6	871.6
15°	861.9	860.0	857.1	855.9	855.6	853.7	852.4	851.1	849.6	848.9	848.9
17.5°	837.3	834.1	831.6	831.6	830.4	828.5	826.6	825.6	824.7	823.4	822.8
20°	808.3	806.1	803.3	803.3	800.4	799.8	797.9	797.6	795.4	795.7	794.8
22.5°	773.4	772.1	770.5	769.3	767.7	765.8	764.9	765.2	764.2	763.9	763.6
25°	738.1	734.6	732.7	732.1	731.5	729.9	729.3	729.0	729.0	728.0	728.3
27.5°	697.5	695.0	692.4	693.4	692.1	691.2	690.6	689.6	690.2	689.9	690.2
30°	655.9	652.8	651.2	651.8	651.5	649.0	650.2	649.9	650.2	650.2	650.9
32.5°	612.1	609.9	609.6	609.9	607.1	607.4	606.2	608.1	608.4	610.3	608.7
35°	567.7	566.5	564.3	564.0	564.3	564.0	564.0	565.2	564.9	566.8	566.2
37.5°	522.1	521.5	519.3	519.9	518.6	520.8	521.5	520.8	523.0	522.4	522.1
40°	477.4	476.4	475.2	477.7	476.1	474.9	477.1	475.2	475.8	477.7	477.7
42.5°	432.0	430.5	430.5	430.5	430.1	430.1	431.1	432.0	431.4	431.7	434.2
45°	386.4	386.1	385.1	385.7	385.4	387.0	387.0	387.6	388.9	390.1	389.5
47.5°	342.3	341.7	342.6	342.0	342.3	341.3	342.0	343.9	345.4	343.2	345.4
50°	301.0	299.8	299.5	300.4	300.1	299.8	300.4	300.4	299.8	299.8	302.0
52.5°	261.7	260.4	259.5	261.0	260.1	260.4	259.2	259.2	259.8	259.2	258.2
55°	224.8	223.9	222.6	223.3	221.7	221.4	220.1	220.1	219.2	218.5	216.6
57.5°	189.6	188.9	186.1	185.8	186.1	183.9	181.7	180.7	178.2	177.6	177.3
60°	158.4	154.9	153.4	151.5	150.2	149.3	146.7	145.2	141.4	139.2	138.9
62.5°	126.0	124.4	122.5	119.7	119.0	115.9	113.4	109.3	107.4	104.5	101.7
65°	99.8	95.7	92.9	91.3	88.8	86.0	83.1	78.7	76.5	73.1	70.2
67.5°	73.1	69.6	65.8	64.6	62.3	58.9	56.1	52.3	50.4	47.2	46.3
70°	50.1	46.9	44.1	42.2	40.6	37.2	34.3	33.1	31.2	30.5	30.5
72.5°	32.1	29.3	26.1	25.2	23.9	22.0	20.2	19.5	20.2	19.8	19.8
75°	17.9	16.4	14.2	13.2	13.2	12.6	12.3	12.3	12.3	12.3	12.3
77.5°	9.1	8.2	7.6	7.2	7.2	7.2	7.6	7.6	7.6	7.9	7.6
80°	4.4	4.1	4.1	4.1	4.4	4.4	4.4	4.4	4.4	4.7	4.4
82.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.5	2.5	2.5	2.5	2.5
85°	0.9	0.9	0.9	0.9	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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: P684106

CATALOG NUMBER: LX6C20D010 EX6C209035 6LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	936.8	936.8	936.8	936.8	936.8	936.8	936.8	936.8
2.5°	929.9	929.2	929.2	928.9	928.9	928.9	928.9	929.2
5°	919.8	919.5	919.5	918.8	918.8	918.8	918.8	918.8
7.5°	906.3	905.6	905.9	905.3	905.3	905.6	905.3	905.0
10°	889.6	889.2	889.6	889.6	888.9	888.6	888.9	889.2
12.5°	870.7	870.4	869.7	870.0	870.0	869.7	869.4	868.8
15°	848.6	848.3	848.0	847.7	847.4	847.7	847.4	846.7
17.5°	822.8	822.8	822.5	822.2	821.9	821.2	821.5	822.5
20°	795.1	794.8	794.2	794.5	793.2	792.6	792.9	793.8
22.5°	763.3	762.3	763.0	762.0	762.0	762.3	762.0	761.4
25°	728.7	727.4	728.0	728.3	728.3	728.0	727.7	728.0
27.5°	690.2	691.2	691.2	690.6	691.5	690.2	690.9	691.2
30°	650.9	649.9	649.6	650.9	652.8	651.2	651.2	651.5
32.5°	610.3	609.0	609.0	609.6	609.3	609.3	610.6	609.0
35°	566.8	567.4	564.9	566.5	567.1	566.5	566.8	566.8
37.5°	523.0	522.4	522.4	522.4	523.3	523.3	524.0	523.7
40°	479.9	478.6	478.3	478.9	477.7	478.6	478.6	477.7
42.5°	433.3	433.6	435.2	433.6	433.9	433.6	433.0	432.7
45°	390.1	391.1	390.5	390.1	390.5	389.2	389.5	390.5
47.5°	344.5	346.4	344.5	345.7	345.4	344.8	344.2	342.9
50°	301.7	302.3	302.0	301.7	301.3	301.0	299.5	298.5
52.5°	257.9	257.9	257.9	257.9	254.7	256.3	255.7	253.8
55°	215.1	216.0	214.8	214.8	212.6	212.6	211.9	212.2
57.5°	173.8	172.9	171.9	171.9	169.7	168.8	167.8	166.6
60°	135.4	134.5	133.2	131.6	129.4	129.4	128.8	126.3
62.5°	99.2	97.6	96.7	95.4	93.5	92.3	91.3	91.9
65°	68.0	66.4	65.2	65.2	65.2	64.6	64.2	64.2
67.5°	44.7	45.7	45.0	45.7	45.7	45.0	44.7	45.3
70°	30.9	30.9	30.5	30.5	30.5	30.5	30.2	30.5
72.5°	19.8	19.8	19.8	20.2	19.8	19.8	20.2	20.2
75°	12.6	12.6	12.6	12.9	12.6	12.6	12.9	12.6
77.5°	7.6	7.9	7.9	7.9	7.9	7.6	7.9	7.9
80°	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7
82.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
87.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
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)