

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: P859789

Luminaire Tested: **LX4C08D010 EX4C089850 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859789
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: LX4C08D010 EX4C089850 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

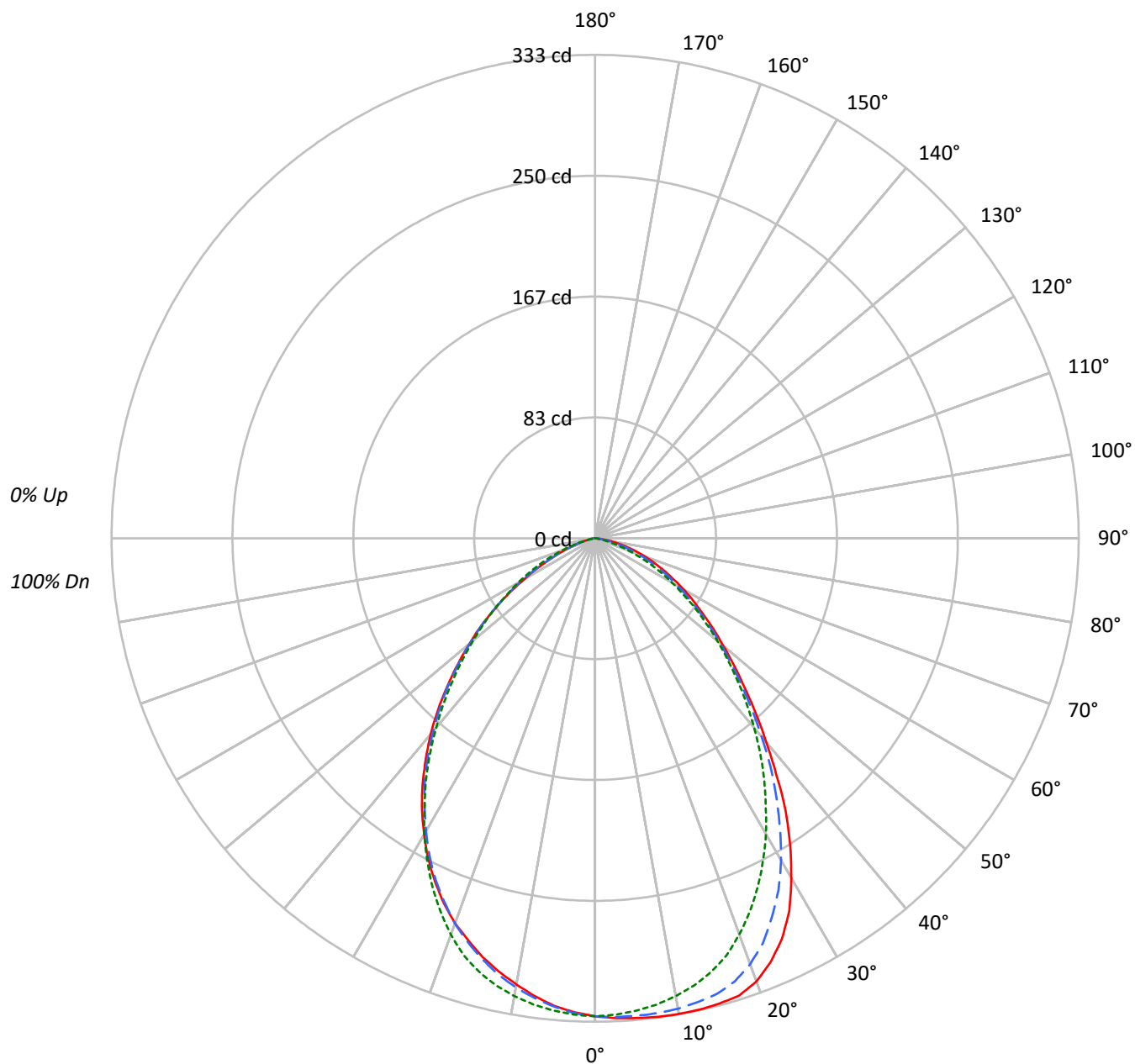
Lumens per Lamp: N/A
Luminaire Lumens: 620.6 lumens
Efficiency: N/A
Efficacy: 62.7 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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: P859789

CATALOG NUMBER: LX4C08D010 EX4C089850 4LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P859789

CATALOG NUMBER: LX4C08D010 EX4C089850 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
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101	108	105	102	99		101	98	96		97	95	93		94	92	90
2	103	96	90	86	100	94	89	85		91	86	83		88	84	81		85	82	79
3	95	86	79	74	93	85	78	73		82	76	72		79	75	71		77	73	70
4	88	78	70	64	86	77	69	64		74	68	63		72	67	62		70	65	62
5	82	71	63	57	80	69	62	57		67	61	56		66	60	55		64	59	55
6	76	64	56	51	74	63	56	50		62	55	50		60	54	50		59	53	49
7	71	59	51	46	69	58	51	45		57	50	45		55	49	45		54	49	44
8	67	54	47	41	65	54	46	41		52	46	41		51	45	41		50	45	40
9	62	50	43	38	61	50	42	37		49	42	37		47	41	37		47	41	37
10	59	47	39	34	58	46	39	34		45	39	34		44	38	34		43	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	40456	40456	40456
5°	40906	40277	39858
10°	41504	39945	38934
15°	42188	39314	38004
20°	42464	37966	36881
25°	41249	35922	35366
30°	38330	33379	33408
35°	34300	30445	31075
40°	29380	27280	28274
45°	25279	24063	24967
50°	21979	20947	21578
55°	19341	18013	17863
60°	17224	15037	13858
65°	15087	12035	10000
70°	12967	8513	6789
75°	10538	4889	3987
80°	7499	2122	1981
85°	2960	846	846



TEST NUMBER: P859789

CATALOG NUMBER: LX4C08D010 EX4C089850 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.0	5.0
10°-20°	87.9	14.2
20°-30°	125.5	20.2
30°-40°	131.2	21.1
40°-50°	110.0	17.7
50°-60°	77.0	12.4
60°-70°	41.9	6.8
70°-80°	14.5	2.3
80°-90°	1.7	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°	244.4	39.4
0°-40°	375.6	60.5
0°-60°	562.5	90.6
0°-90°	620.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	620.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	329	329	329	329	329	
5°	332	330	327	324	323	32
15°	332	325	309	300	299	94
25°	304	288	265	260	261	139
35°	229	218	203	204	207	142
45°	146	142	138	143	144	113
55°	90	87	84	84	83	82
65°	52	47	41	35	34	52
75°	22	18	10	8	8	24
85°	2	1	1	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P859789

CATALOG NUMBER: LX4C08D010 EX4C089850 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
2.5°	330.8	330.5	330.6	330.6	330.6	330.5	330.6	330.5	330.5	330.4	330.1
5°	331.7	331.5	331.5	331.5	331.4	331.2	331.2	331.1	330.8	330.7	330.2
7.5°	332.4	332.1	332.1	332.0	331.9	331.7	331.6	331.2	330.8	330.6	329.9
10°	332.7	332.4	332.4	332.1	331.9	331.7	331.5	331.0	330.5	329.9	329.0
12.5°	332.5	332.1	332.0	331.7	331.2	331.0	330.7	330.1	329.2	328.3	327.2
15°	331.7	331.5	331.2	330.8	330.2	329.9	329.6	328.6	327.4	326.2	324.8
17.5°	330.2	329.9	329.3	328.8	328.0	327.5	326.9	325.7	324.0	322.3	320.0
20°	324.8	324.5	324.0	323.2	321.7	321.2	320.3	318.7	316.6	314.4	312.1
22.5°	315.8	315.4	314.6	313.9	312.6	311.8	311.0	308.7	306.3	304.0	301.9
25°	304.3	303.9	302.8	301.9	300.6	299.1	298.3	296.5	294.1	291.2	288.0
27.5°	289.5	288.2	287.8	286.6	284.7	284.2	283.1	280.8	278.6	276.0	273.3
30°	270.2	270.2	269.4	268.9	267.2	266.6	265.4	263.0	261.7	258.2	256.1
32.5°	249.8	249.5	248.9	248.5	247.5	246.7	245.3	244.1	241.3	239.5	236.8
35°	228.7	227.2	227.5	226.8	226.1	225.1	225.0	223.6	221.1	220.0	217.5
37.5°	204.8	204.2	205.1	203.9	203.3	203.4	202.4	201.5	200.6	198.8	198.2
40°	183.2	183.7	183.5	182.5	183.1	182.4	181.4	180.5	180.0	178.9	178.4
42.5°	163.8	163.0	162.7	162.7	162.9	162.9	162.4	161.8	161.8	160.6	159.4
45°	145.5	145.5	145.3	146.1	144.9	144.9	144.6	144.4	143.9	143.7	142.2
47.5°	129.8	129.7	129.6	129.5	129.3	129.3	128.6	128.0	127.8	127.1	126.3
50°	115.0	115.7	115.5	114.9	114.6	114.8	114.2	113.9	113.8	112.4	112.6
52.5°	102.6	102.5	102.7	102.4	101.7	101.8	101.3	100.9	100.3	99.7	99.2
55°	90.3	91.0	90.7	90.3	90.2	90.0	89.5	88.9	88.8	87.4	87.3
57.5°	80.1	79.9	79.6	79.0	78.9	78.6	78.6	78.0	77.2	76.5	75.9
60°	70.1	70.1	69.6	69.6	69.0	68.9	68.8	68.3	67.4	66.8	65.7
62.5°	60.5	60.6	60.5	60.0	59.7	59.1	58.9	58.5	57.8	57.2	56.3
65°	51.9	51.8	51.7	51.2	51.0	50.6	50.4	49.7	48.9	48.4	47.4
67.5°	43.8	43.4	43.4	43.2	43.0	42.5	42.3	41.6	40.7	40.1	39.1
70°	36.1	35.8	35.8	35.8	35.2	34.9	34.7	34.3	33.1	32.5	31.6
72.5°	29.0	28.9	28.7	28.4	28.0	28.0	27.5	26.8	26.1	25.5	24.7
75°	22.2	22.4	22.2	21.7	21.5	21.3	20.9	20.2	19.6	18.9	18.0
77.5°	16.2	16.0	15.7	15.7	15.4	15.0	14.8	14.4	13.6	13.0	12.1
80°	10.6	10.5	10.3	10.0	9.9	9.7	9.6	9.1	8.4	7.9	7.2
82.5°	5.8	5.7	5.7	5.5	5.2	5.2	5.1	4.5	4.2	3.9	3.6
85°	2.1	2.1	2.1	1.9	1.9	1.9	1.8	1.6	1.5	1.4	1.2
87.5°	0.3	0.1	0.3	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1
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: P859789

CATALOG NUMBER: LX4C08D010 EX4C089850 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
2.5°	329.9	329.6	329.5	329.3	329.2	329.1	329.0	328.7	328.6	328.4	328.2
5°	329.9	329.3	329.1	328.7	328.4	328.2	327.8	327.4	327.1	326.6	326.3
7.5°	329.3	328.6	328.1	327.3	327.1	326.6	325.9	325.4	324.8	324.0	323.2
10°	328.1	327.2	326.2	325.1	324.8	324.1	323.2	322.3	321.2	320.2	319.3
12.5°	326.0	324.7	323.3	322.0	321.2	320.6	319.2	317.9	316.7	315.5	314.0
15°	323.0	321.4	319.7	317.8	316.9	316.1	314.2	312.6	310.6	309.1	307.6
17.5°	318.1	315.5	313.5	311.1	309.8	308.9	307.2	304.8	302.8	301.2	299.4
20°	309.6	307.2	304.4	301.7	300.3	299.2	296.7	294.1	292.2	290.4	288.6
22.5°	298.5	295.3	293.4	290.1	288.9	287.5	284.5	282.2	280.1	278.3	276.5
25°	284.9	282.2	279.4	276.4	275.0	273.3	270.8	268.4	267.0	265.0	262.8
27.5°	269.3	267.2	263.7	261.1	259.7	258.4	256.0	253.9	251.8	250.4	248.4
30°	252.8	250.3	247.3	244.4	243.7	242.2	240.1	238.4	236.2	235.3	234.4
32.5°	234.7	231.8	229.5	227.8	226.2	225.0	223.8	221.2	220.8	218.5	218.2
35°	214.9	213.7	211.5	210.0	208.8	207.9	206.0	204.7	203.3	203.0	202.1
37.5°	196.4	194.8	192.8	191.4	190.5	190.4	189.0	188.2	187.2	186.7	185.7
40°	176.8	176.2	174.4	174.2	172.7	172.6	171.9	171.0	170.1	170.1	170.2
42.5°	158.8	158.1	157.3	156.4	155.7	155.7	155.3	155.1	154.8	154.4	155.1
45°	142.0	141.0	140.4	139.6	140.0	139.2	138.9	138.9	138.6	138.5	139.3
47.5°	126.3	125.1	124.7	124.4	124.4	124.5	123.4	123.8	123.6	123.9	124.2
50°	112.0	110.9	110.2	110.2	110.3	109.9	109.3	109.7	109.3	109.6	110.5
52.5°	98.7	97.6	97.3	97.3	96.5	96.4	96.7	96.1	96.3	96.4	96.9
55°	86.4	85.8	85.2	84.4	84.6	84.4	83.8	83.7	84.0	84.1	84.7
57.5°	75.4	74.5	73.6	73.3	73.1	73.1	72.4	72.3	72.6	72.0	72.0
60°	64.8	64.4	63.2	62.9	62.9	62.2	61.7	62.0	61.3	61.2	61.3
62.5°	55.1	54.8	54.0	53.2	53.0	52.7	52.1	51.8	51.5	51.0	50.3
65°	46.6	45.7	44.9	44.3	44.0	43.3	43.0	42.4	41.6	41.4	40.7
67.5°	38.2	37.3	36.4	35.9	35.6	35.2	34.6	34.0	33.1	32.0	31.1
70°	30.7	29.5	29.0	28.0	27.7	27.2	26.3	25.7	24.8	23.7	22.8
72.5°	23.5	22.7	21.9	21.0	20.4	20.0	19.3	18.3	17.2	16.6	15.7
75°	16.9	16.5	15.4	14.4	14.2	13.6	12.8	12.1	11.4	10.3	9.6
77.5°	11.4	10.6	10.0	9.1	8.8	8.4	7.8	7.2	6.7	6.1	5.5
80°	6.7	6.1	5.7	5.1	4.8	4.5	4.2	3.7	3.3	3.0	2.9
82.5°	3.3	2.8	2.7	2.3	2.1	2.1	1.8	1.6	1.4	1.4	1.4
85°	1.2	0.9	0.9	0.8	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
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: P859789

CATALOG NUMBER: LX4C08D010 EX4C089850 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
2.5°	328.1	328.0	327.8	327.7	327.7	327.5	327.5	327.4	327.4	327.3	327.3
5°	325.8	325.4	325.1	324.9	324.9	324.5	324.2	324.0	323.9	323.9	323.6
7.5°	322.6	322.1	321.6	321.2	321.1	320.5	320.0	320.0	319.4	319.2	319.0
10°	318.4	317.5	316.8	316.4	315.9	315.5	314.9	314.5	314.2	313.5	313.4
12.5°	312.7	312.1	311.0	310.4	310.2	309.4	308.5	307.9	307.8	307.3	306.9
15°	306.3	304.9	303.9	303.3	303.3	301.9	301.5	300.7	300.2	299.8	299.7
17.5°	297.9	296.5	295.5	294.6	294.4	293.4	292.6	292.3	291.7	292.0	291.3
20°	287.1	286.0	285.3	284.1	284.1	283.5	283.2	282.6	282.3	282.1	282.3
22.5°	275.6	274.2	273.0	272.9	272.9	272.0	271.8	271.7	271.2	271.5	271.4
25°	262.1	261.1	260.3	260.2	260.2	259.7	259.1	259.4	259.8	259.7	260.0
27.5°	248.0	247.0	246.7	246.7	246.4	246.2	246.5	246.5	246.8	247.4	247.9
30°	232.8	232.6	232.2	232.0	231.8	232.5	232.7	233.1	232.9	233.7	234.2
32.5°	217.6	217.1	217.0	217.2	217.6	217.5	218.2	218.5	218.7	219.6	220.0
35°	202.2	202.2	201.9	201.9	202.1	203.0	203.0	203.9	204.5	204.7	205.7
37.5°	185.8	186.3	186.6	187.0	187.1	187.4	187.7	188.6	189.1	189.6	190.1
40°	170.8	170.5	171.7	170.9	171.1	172.3	172.7	172.6	173.4	174.2	174.7
42.5°	154.6	155.1	155.3	155.5	156.1	156.3	156.9	157.8	158.1	159.0	159.2
45°	139.1	139.2	139.7	140.2	140.6	141.6	141.9	142.2	143.0	143.0	143.4
47.5°	124.4	124.9	124.9	125.6	126.3	126.2	127.1	127.3	127.2	127.8	128.1
50°	110.3	111.1	110.9	111.5	111.7	111.8	112.6	112.9	112.4	113.0	113.1
52.5°	96.9	97.3	97.8	97.9	97.6	98.3	98.0	98.5	98.4	98.9	98.4
55°	84.6	84.4	84.4	84.7	84.4	84.7	85.0	84.4	84.1	84.6	84.4
57.5°	72.3	72.3	72.1	72.4	72.1	71.7	71.6	71.2	70.8	70.8	70.7
60°	60.8	60.5	60.0	59.9	59.9	59.3	59.0	58.5	58.5	58.1	57.5
62.5°	50.0	49.4	49.0	49.0	48.8	48.2	47.0	46.2	46.0	45.2	45.1
65°	39.9	39.2	38.9	38.2	37.5	37.3	36.1	35.2	34.9	34.1	34.2
67.5°	30.7	29.6	28.5	28.0	27.6	26.8	26.3	25.7	25.3	25.3	25.3
70°	22.0	21.1	20.0	19.6	19.4	18.6	18.3	18.1	18.5	18.4	18.5
72.5°	14.8	13.9	13.5	13.2	12.9	12.6	12.8	12.9	12.7	12.8	12.9
75°	9.0	8.7	8.4	8.2	8.2	8.4	8.2	8.2	8.4	8.4	8.5
77.5°	5.2	4.9	4.9	4.8	5.1	4.9	4.9	4.9	5.1	5.1	5.1
80°	2.8	2.8	2.8	2.8	2.9	2.8	2.9	2.9	2.9	2.9	2.9
82.5°	1.4	1.4	1.4	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.4
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
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: P859789

CATALOG NUMBER: LX4C08D010 EX4C089850 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	329.3	329.3	329.3	329.3	329.3	329.3	329.3	329.3
2.5°	327.1	327.1	327.1	326.8	326.9	326.9	326.8	326.8
5°	323.5	323.3	323.2	323.2	322.9	323.2	323.0	323.2
7.5°	318.7	318.7	318.4	318.4	318.2	318.1	317.9	318.1
10°	313.0	313.0	312.7	312.6	312.7	312.2	312.2	312.1
12.5°	306.7	306.4	306.1	306.3	306.1	305.8	305.7	305.8
15°	299.4	298.9	299.1	298.6	298.6	298.6	298.8	298.8
17.5°	291.2	291.0	290.7	290.8	290.5	290.7	290.5	290.4
20°	282.2	282.1	282.1	281.6	281.7	281.6	281.7	282.1
22.5°	271.8	271.7	271.8	271.4	271.7	271.7	272.1	272.1
25°	260.4	260.3	260.6	260.7	260.8	261.2	260.8	260.9
27.5°	247.7	248.2	248.5	248.6	249.2	248.8	248.5	248.9
30°	235.0	235.0	234.8	235.3	235.7	236.1	235.5	235.5
32.5°	220.3	220.9	220.9	221.1	221.4	221.4	221.4	222.0
35°	206.2	206.6	206.7	206.2	206.4	206.3	207.2	207.2
37.5°	190.5	190.5	190.7	191.5	191.5	191.1	191.4	191.4
40°	175.6	175.7	175.1	175.4	176.0	175.9	176.0	176.3
42.5°	159.2	160.1	159.6	159.9	159.7	159.9	160.0	160.0
45°	143.7	143.9	143.9	144.0	144.3	144.6	143.7	143.7
47.5°	128.4	128.6	128.9	128.3	129.0	128.3	129.0	128.1
50°	113.1	113.6	113.3	113.5	113.1	113.1	113.0	112.9
52.5°	98.5	98.4	98.4	98.3	98.3	98.5	98.3	98.7
55°	84.0	84.1	83.8	83.7	83.6	84.0	83.6	83.4
57.5°	70.2	70.4	69.9	70.2	69.3	69.6	69.8	69.9
60°	57.3	57.0	57.0	56.5	56.5	56.9	56.4	56.4
62.5°	44.5	44.7	44.3	44.9	44.9	45.4	45.1	45.4
65°	34.1	34.2	34.3	34.3	34.3	35.0	34.9	34.4
67.5°	25.7	25.9	25.9	25.9	26.2	25.9	25.9	26.1
70°	18.6	18.7	18.9	18.9	18.7	18.9	18.9	18.9
72.5°	12.9	13.0	12.9	13.0	13.2	13.0	13.0	13.2
75°	8.5	8.5	8.4	8.4	8.4	8.4	8.5	8.4
77.5°	4.9	5.1	4.9	5.1	5.1	5.1	5.1	5.1
80°	2.9	2.9	2.9	2.8	2.9	2.9	2.9	2.8
82.5°	1.5	1.5	1.4	1.4	1.5	1.5	1.5	1.5
85°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
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)