

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: P858870

Luminaire Tested: **LX4C05D010 EX4C059830 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P858870
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: LX4C05D010 EX4C059830 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

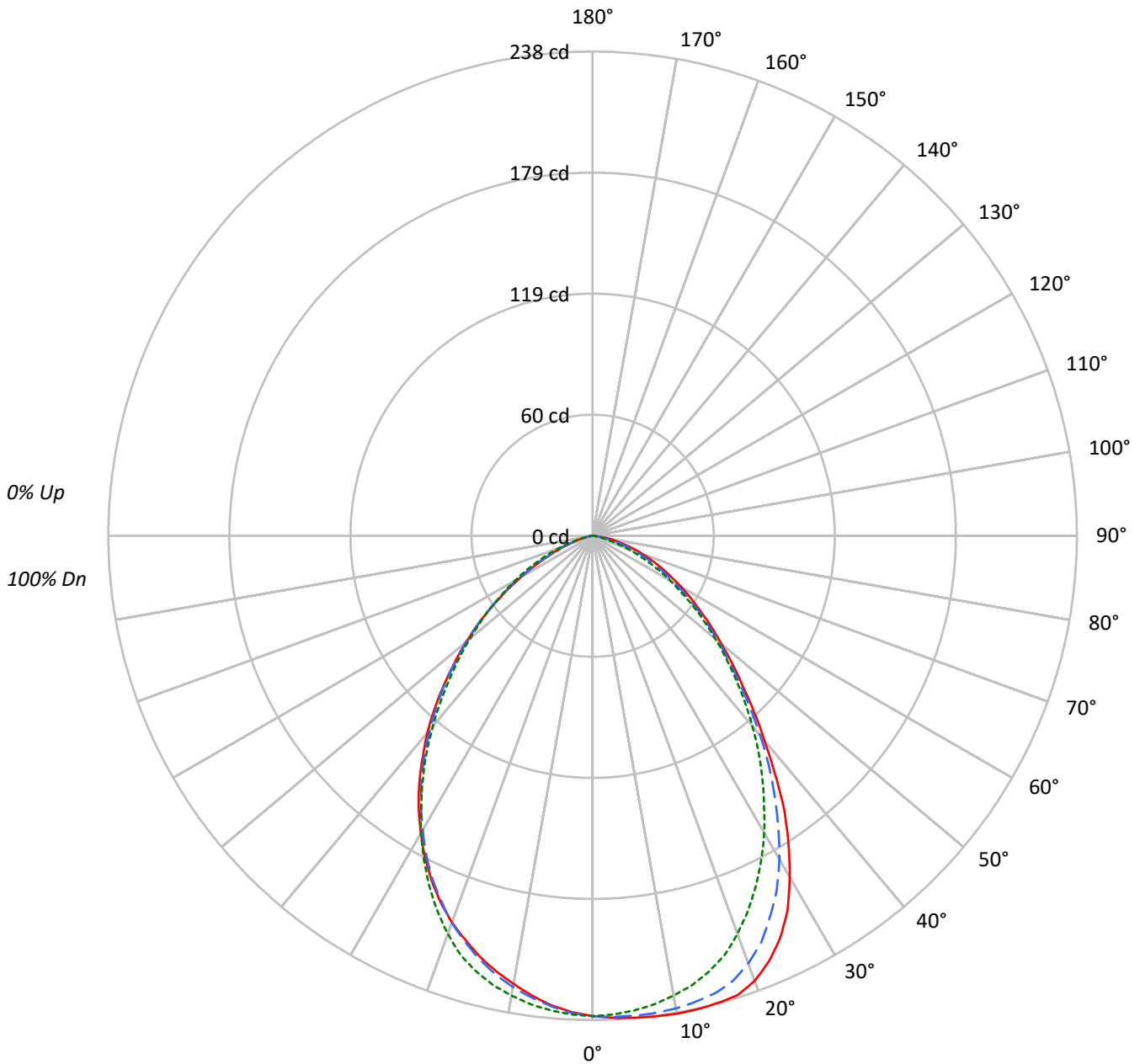
Lumens per Lamp: N/A
Luminaire Lumens: 445.0 lumens
Efficiency: N/A
Efficacy: 61.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 7.2
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

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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	111	107	104	101	108	105	102	99	101	98	96	97	95	93	94	92	90	88			88
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			77
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68			68
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60			60
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53			53
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47			47
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43			43
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39			39
9	62	50	43	38	61	50	42	37	49	42	37	47	41	37	47	41	37	35			35
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32			32

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	29006	29006	29006
5°	29326	28882	28574
10°	29753	28630	27906
15°	30245	28185	27244
20°	30436	27220	26435
25°	29564	25742	25362
30°	27478	23932	23946
35°	24596	21807	22286
40°	21073	19566	20271
45°	18121	17252	17895
50°	15768	15023	15462
55°	13858	12916	12787
60°	12334	10787	9927
65°	10843	8634	7180
70°	9303	6070	4885
75°	7547	3560	2848
80°	5448	1486	1415
85°	1973	564	564



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.3	5.0
10°-20°	63.0	14.2
20°-30°	89.9	20.2
30°-40°	94.1	21.1
40°-50°	78.8	17.7
50°-60°	55.2	12.4
60°-70°	30.0	6.8
70°-80°	10.4	2.3
80°-90°	1.2	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°	175.2	39.4
0°-40°	269.3	60.5
0°-60°	403.3	90.6
0°-90°	445.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	445.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	236	236	236	236	236	
5°	238	237	234	232	232	23
15°	238	233	222	215	214	67
25°	218	206	190	186	187	100
35°	164	156	145	147	149	102
45°	104	102	99	103	103	81
55°	65	63	60	60	60	58
65°	37	34	30	25	25	37
75°	16	13	8	6	6	17
85°	1	1	0	0	0	3
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°	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1
2.5°	237.2	236.9	237.0	237.0	237.0	236.9	237.0	236.9	236.9	236.8	236.7
5°	237.8	237.6	237.6	237.6	237.6	237.5	237.5	237.4	237.2	237.1	236.8
7.5°	238.3	238.1	238.1	238.0	237.9	237.8	237.7	237.5	237.2	237.0	236.6
10°	238.5	238.3	238.3	238.1	237.9	237.8	237.6	237.3	236.9	236.5	235.9
12.5°	238.4	238.1	238.0	237.8	237.5	237.3	237.1	236.7	236.0	235.4	234.6
15°	237.8	237.6	237.5	237.2	236.8	236.5	236.3	235.6	234.8	233.8	232.8
17.5°	236.8	236.5	236.1	235.8	235.2	234.9	234.3	233.5	232.3	231.1	229.4
20°	232.8	232.7	232.3	231.7	230.7	230.3	229.7	228.5	226.9	225.4	223.7
22.5°	226.4	226.1	225.6	225.1	224.1	223.5	222.9	221.3	219.5	217.9	216.4
25°	218.1	217.9	217.1	216.4	215.5	214.4	213.8	212.6	210.9	208.8	206.5
27.5°	207.5	206.6	206.3	205.5	204.1	203.8	203.0	201.4	199.7	197.9	196.0
30°	193.7	193.7	193.2	192.8	191.5	191.2	190.3	188.5	187.6	185.0	183.6
32.5°	179.1	178.9	178.4	178.2	177.5	176.8	175.9	175.0	173.0	171.7	169.7
35°	164.0	162.9	163.1	162.6	162.1	161.4	161.3	160.2	158.5	157.7	156.0
37.5°	146.9	146.4	147.0	146.2	145.8	145.9	145.1	144.5	143.7	142.5	142.1
40°	131.4	131.7	131.6	130.9	131.3	130.7	130.0	129.4	129.0	128.2	128.0
42.5°	117.4	116.9	116.7	116.7	116.8	116.8	116.5	115.9	115.9	115.1	114.3
45°	104.3	104.3	104.2	104.7	103.9	103.9	103.6	103.5	103.2	103.0	102.0
47.5°	93.1	93.0	92.9	92.8	92.7	92.7	92.2	91.8	91.7	91.0	90.5
50°	82.5	83.0	82.8	82.4	82.2	82.3	82.0	81.7	81.6	80.6	80.7
52.5°	73.6	73.5	73.7	73.4	72.9	73.0	72.7	72.3	72.0	71.4	71.1
55°	64.7	65.2	65.0	64.7	64.7	64.5	64.2	63.8	63.7	62.7	62.6
57.5°	57.4	57.3	57.2	56.6	56.5	56.3	56.3	55.9	55.4	54.8	54.4
60°	50.2	50.2	49.9	49.8	49.5	49.4	49.3	49.0	48.3	47.9	47.2
62.5°	43.3	43.5	43.3	43.1	42.8	42.4	42.3	41.9	41.4	40.9	40.3
65°	37.3	37.2	37.1	36.7	36.6	36.2	36.1	35.6	35.0	34.7	34.0
67.5°	31.4	31.1	31.1	30.9	30.8	30.5	30.3	29.8	29.2	28.8	28.1
70°	25.9	25.7	25.7	25.7	25.2	25.0	24.9	24.6	23.7	23.4	22.7
72.5°	20.8	20.7	20.6	20.3	20.1	20.1	19.7	19.2	18.7	18.3	17.7
75°	15.9	16.1	15.9	15.5	15.4	15.2	15.0	14.5	14.1	13.6	12.9
77.5°	11.6	11.4	11.2	11.2	11.1	10.7	10.6	10.3	9.7	9.4	8.7
80°	7.7	7.6	7.3	7.1	7.0	7.0	6.9	6.5	6.0	5.7	5.2
82.5°	4.2	4.1	4.1	4.0	3.7	3.7	3.7	3.3	3.0	2.9	2.6
85°	1.4	1.4	1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.0	0.8
87.5°	0.2	0.1	0.2	0.1	0.2	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1
2.5°	236.5	236.3	236.2	236.1	236.0	236.0	235.9	235.7	235.6	235.5	235.3
5°	236.5	236.1	236.0	235.7	235.5	235.3	235.1	234.8	234.4	234.2	233.9
7.5°	236.1	235.6	235.2	234.7	234.4	234.2	233.6	233.3	232.8	232.3	231.7
10°	235.2	234.6	233.8	233.1	232.8	232.4	231.7	231.1	230.3	229.5	228.9
12.5°	233.7	232.7	231.9	230.9	230.3	229.9	228.8	227.9	227.0	226.2	225.2
15°	231.6	230.4	229.2	227.8	227.2	226.7	225.3	224.1	222.7	221.6	220.5
17.5°	228.0	226.2	224.8	223.0	222.1	221.5	220.3	218.5	217.1	216.0	214.6
20°	222.0	220.3	218.2	216.3	215.4	214.5	212.7	210.9	209.5	208.2	206.9
22.5°	213.9	211.8	210.4	208.0	207.2	206.2	203.9	202.3	200.8	199.5	198.2
25°	204.2	202.3	200.4	198.1	197.2	196.0	194.1	192.4	191.5	189.9	188.4
27.5°	193.1	191.5	189.0	187.2	186.2	185.3	183.5	182.0	180.6	179.5	178.1
30°	181.3	179.4	177.3	175.2	174.7	173.6	172.1	170.9	169.3	168.7	168.1
32.5°	168.3	166.2	164.5	163.3	162.2	161.3	160.4	158.6	158.3	156.7	156.5
35°	154.1	153.2	151.7	150.5	149.6	149.0	147.7	146.8	145.8	145.4	144.8
37.5°	140.8	139.6	138.2	137.2	136.6	136.5	135.5	134.9	134.2	133.9	133.1
40°	126.8	126.4	125.0	124.8	123.9	123.8	123.2	122.6	122.0	122.0	122.1
42.5°	113.9	113.3	112.8	112.2	111.6	111.6	111.4	111.2	110.9	110.7	111.2
45°	101.8	101.0	100.7	100.1	100.3	99.8	99.6	99.6	99.3	99.3	99.9
47.5°	90.5	89.7	89.4	89.2	89.2	89.3	88.5	88.7	88.6	88.8	89.1
50°	80.3	79.5	79.0	79.0	79.1	78.7	78.4	78.7	78.4	78.6	79.2
52.5°	70.7	70.0	69.7	69.7	69.2	69.1	69.3	68.9	69.0	69.1	69.5
55°	62.0	61.4	61.0	60.5	60.6	60.5	60.1	60.0	60.2	60.3	60.7
57.5°	54.0	53.4	52.8	52.6	52.4	52.4	52.0	51.9	52.1	51.5	51.5
60°	46.5	46.1	45.3	45.0	45.0	44.6	44.2	44.4	44.0	43.9	44.0
62.5°	39.5	39.2	38.7	38.2	38.0	37.8	37.4	37.2	36.9	36.6	36.0
65°	33.4	32.8	32.2	31.7	31.5	31.0	30.8	30.4	29.9	29.7	29.2
67.5°	27.4	26.7	26.0	25.8	25.5	25.2	24.8	24.3	23.7	23.0	22.4
70°	21.9	21.1	20.8	20.1	19.9	19.5	18.9	18.5	17.8	16.9	16.3
72.5°	16.8	16.2	15.7	15.1	14.6	14.4	13.8	13.1	12.4	11.9	11.2
75°	12.0	11.8	11.1	10.3	10.2	9.8	9.2	8.7	8.2	7.5	6.9
77.5°	8.2	7.7	7.1	6.5	6.3	6.0	5.6	5.2	4.8	4.4	4.0
80°	4.8	4.4	4.1	3.7	3.5	3.3	3.0	2.7	2.3	2.1	2.1
82.5°	2.3	2.0	1.9	1.6	1.5	1.4	1.2	1.2	1.0	1.0	1.0
85°	0.8	0.6	0.6	0.5	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1
2.5°	235.2	235.2	235.1	235.0	235.0	234.9	234.9	234.8	234.8	234.7	234.7
5°	233.5	233.3	233.1	232.9	232.9	232.7	232.5	232.3	232.2	232.2	232.0
7.5°	231.3	231.0	230.6	230.3	230.2	229.8	229.4	229.4	229.0	228.8	228.6
10°	228.3	227.7	227.1	226.9	226.5	226.2	225.8	225.5	225.3	224.8	224.6
12.5°	224.2	223.7	222.9	222.6	222.4	221.9	221.2	220.8	220.7	220.3	220.1
15°	219.5	218.6	217.9	217.4	217.4	216.5	216.2	215.6	215.3	215.0	214.9
17.5°	213.6	212.6	211.9	211.3	211.1	210.4	209.7	209.6	209.1	209.3	208.8
20°	205.9	205.1	204.5	203.7	203.7	203.2	203.0	202.6	202.4	202.2	202.4
22.5°	197.6	196.6	195.7	195.6	195.6	194.9	194.8	194.8	194.4	194.7	194.6
25°	187.9	187.2	186.6	186.6	186.6	186.2	185.8	186.0	186.3	186.2	186.5
27.5°	177.8	177.1	176.9	176.8	176.7	176.6	176.7	176.7	177.0	177.4	177.7
30°	166.9	166.8	166.5	166.4	166.2	166.7	166.8	167.1	167.0	167.6	167.9
32.5°	156.1	155.7	155.6	155.8	156.1	156.0	156.5	156.7	156.9	157.5	157.7
35°	145.0	144.9	144.7	144.7	144.8	145.5	145.5	146.2	146.6	146.8	147.5
37.5°	133.2	133.6	133.8	134.0	134.1	134.4	134.6	135.2	135.5	136.0	136.3
40°	122.4	122.3	123.1	122.5	122.7	123.5	123.9	123.8	124.3	124.8	125.2
42.5°	110.8	111.2	111.4	111.6	112.0	112.1	112.5	113.2	113.3	114.0	114.1
45°	99.7	99.8	100.1	100.5	100.8	101.6	101.7	102.0	102.6	102.6	102.8
47.5°	89.2	89.5	89.5	90.1	90.5	90.4	91.0	91.2	91.1	91.7	91.8
50°	79.1	79.6	79.5	79.9	80.1	80.2	80.7	80.9	80.5	81.0	81.1
52.5°	69.5	69.7	70.1	70.2	70.0	70.4	70.3	70.6	70.5	70.9	70.5
55°	60.6	60.5	60.5	60.7	60.5	60.7	60.9	60.5	60.3	60.6	60.5
57.5°	51.9	51.9	51.6	52.0	51.6	51.4	51.3	51.0	50.7	50.7	50.7
60°	43.6	43.4	43.1	43.0	43.0	42.5	42.4	41.9	41.9	41.6	41.2
62.5°	35.8	35.4	35.1	35.1	35.0	34.5	33.7	33.2	33.0	32.5	32.4
65°	28.6	28.2	27.9	27.4	26.8	26.7	25.9	25.2	25.0	24.4	24.5
67.5°	21.9	21.2	20.4	20.1	19.8	19.2	18.9	18.5	18.2	18.2	18.2
70°	15.8	15.2	14.4	14.1	13.9	13.4	13.1	13.0	13.3	13.2	13.3
72.5°	10.6	10.0	9.6	9.5	9.3	9.0	9.2	9.3	9.1	9.2	9.3
75°	6.4	6.2	6.0	5.9	5.9	6.0	5.9	5.9	6.0	6.0	6.1
77.5°	3.7	3.6	3.6	3.5	3.7	3.6	3.6	3.6	3.7	3.7	3.7
80°	2.0	2.0	2.0	2.0	2.1	2.0	2.1	2.1	2.1	2.1	2.1
82.5°	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.0
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.2	0.2	0.2	0.2	0.2	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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	236.1	236.1	236.1	236.1	236.1	236.1	236.1	236.1
2.5°	234.4	234.4	234.4	234.3	234.3	234.3	234.3	234.3
5°	231.9	231.9	231.7	231.7	231.5	231.7	231.6	231.7
7.5°	228.5	228.5	228.2	228.2	228.1	228.0	227.9	228.0
10°	224.4	224.4	224.2	224.1	224.2	223.8	223.8	223.7
12.5°	219.9	219.6	219.5	219.5	219.5	219.2	219.1	219.2
15°	214.6	214.3	214.4	214.1	214.1	214.0	214.2	214.2
17.5°	208.8	208.6	208.4	208.5	208.3	208.4	208.3	208.2
20°	202.3	202.2	202.2	201.9	202.0	201.9	202.0	202.2
22.5°	194.8	194.8	194.8	194.6	194.8	194.8	195.1	195.1
25°	186.7	186.6	186.8	186.9	187.0	187.3	187.0	187.1
27.5°	177.6	177.9	178.2	178.3	178.6	178.3	178.2	178.4
30°	168.5	168.5	168.4	168.7	169.0	169.3	168.8	168.8
32.5°	157.9	158.4	158.4	158.5	158.7	158.7	158.7	159.1
35°	147.9	148.1	148.2	147.9	148.0	147.9	148.6	148.6
37.5°	136.6	136.6	136.7	137.3	137.3	137.1	137.2	137.2
40°	125.8	126.0	125.6	125.7	126.3	126.1	126.3	126.4
42.5°	114.1	114.8	114.4	114.6	114.5	114.6	114.7	114.7
45°	103.0	103.2	103.2	103.3	103.4	103.6	103.1	103.0
47.5°	92.1	92.2	92.5	92.0	92.6	92.0	92.6	91.9
50°	81.1	81.4	81.1	81.3	81.1	81.1	81.0	80.9
52.5°	70.6	70.5	70.5	70.4	70.4	70.6	70.4	70.7
55°	60.2	60.3	60.1	60.0	59.9	60.2	59.9	59.7
57.5°	50.3	50.5	50.1	50.3	49.7	49.9	50.0	50.1
60°	41.1	40.8	40.8	40.5	40.5	40.8	40.4	40.4
62.5°	31.8	32.0	31.7	32.2	32.2	32.5	32.4	32.5
65°	24.4	24.5	24.6	24.6	24.6	25.1	25.0	24.7
67.5°	18.5	18.5	18.6	18.5	18.8	18.6	18.6	18.7
70°	13.4	13.5	13.6	13.6	13.5	13.6	13.6	13.6
72.5°	9.3	9.4	9.3	9.4	9.5	9.4	9.4	9.5
75°	6.1	6.1	6.0	6.0	6.0	6.0	6.1	6.0
77.5°	3.6	3.7	3.6	3.7	3.7	3.7	3.7	3.7
80°	2.1	2.1	2.1	2.0	2.1	2.1	2.1	2.0
82.5°	1.1	1.1	1.0	1.0	1.1	1.1	1.1	1.1
85°	0.4	0.4	0.4	0.4	0.4	0.4	0.4	0.4
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



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













(END OF REPORT)