

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: P859776

Luminaire Tested: **LX4C08D010 EX4C089840 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859776
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 EX4C089840 4LBLWWH
Description:
Light Source: -
Ballast/Driver: -

Summary

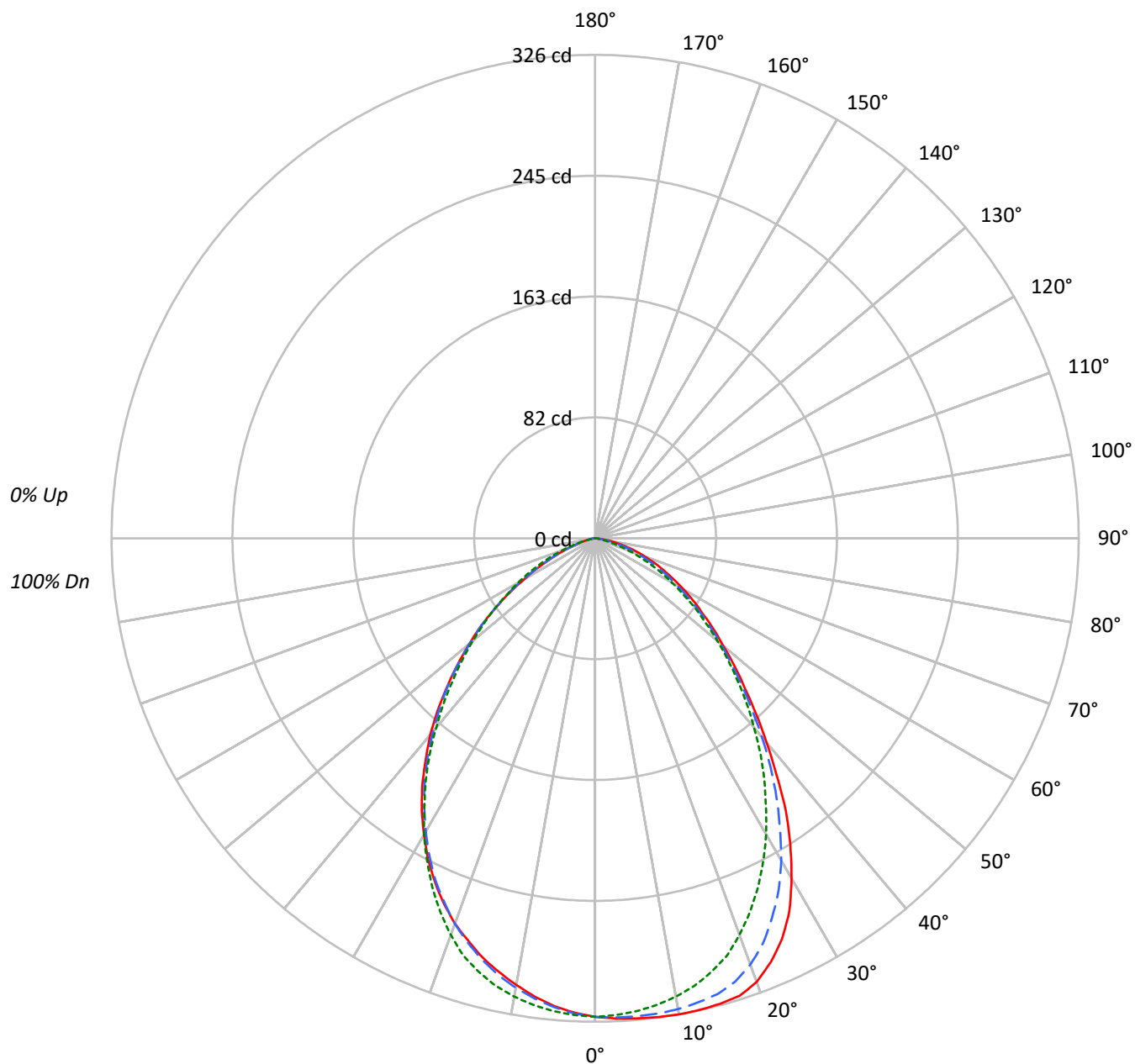
Lumens per Lamp: N/A
Luminaire Lumens: 608.2 lumens
Efficiency: N/A
Efficacy: 61.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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: P859776

CATALOG NUMBER: LX4C08D010 EX4C089840 4LBLWWH

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
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50
RCR																	
0	119	119	119	119	116	116	116	116	111	111	111		106	106	106		102
1	111	107	104	101	108	105	102	99	101	98	96		97	95	93		94
2	103	96	90	86	100	94	89	85	91	86	83		88	84	81		85
3	95	86	79	74	93	85	78	73	82	76	72		79	75	71		77
4	88	78	70	64	86	77	69	64	74	68	63		72	67	62		70
5	82	71	63	57	80	69	62	57	67	61	56		66	60	55		64
6	76	64	56	51	74	63	56	50	62	55	50		60	54	50		59
7	71	59	51	46	69	58	51	45	57	50	45		55	49	45		54
8	67	54	47	41	65	54	46	41	52	46	41		51	45	41		50
9	62	50	43	38	61	50	42	37	48	42	37		47	41	37		47
10	59	47	39	34	58	46	39	34	45	39	34		44	38	34		43

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39645	39645	39645
5°	40080	39476	39056
10°	40668	39146	38161
15°	41336	38512	37240
20°	41614	37208	36136
25°	40409	35203	34661
30°	37564	32713	32727
35°	33625	29830	30445
40°	28787	26734	27697
45°	24775	23559	24445
50°	21540	20527	21139
55°	18956	17649	17499
60°	16880	14718	13563
65°	14796	11802	9826
70°	12716	8333	6645
75°	10348	4842	3892
80°	7358	2052	1981
85°	2819	846	846



TEST NUMBER: P859776

CATALOG NUMBER: LX4C08D010 EX4C089840 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	30.4	5.0
10°-20°	86.1	14.2
20°-30°	122.9	20.2
30°-40°	128.6	21.1
40°-50°	107.8	17.7
50°-60°	75.4	12.4
60°-70°	41.1	6.8
70°-80°	14.3	2.3
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°	239.4	39.4
0°-40°	368.0	60.5
0°-60°	551.2	90.6
0°-90°	608.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	608.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	323	323	323	323	323	
5°	325	324	320	317	317	31
15°	325	318	303	294	293	92
25°	298	282	260	255	256	136
35°	224	213	199	200	203	139
45°	143	139	136	140	141	111
55°	88	86	82	82	82	80
65°	51	46	41	34	34	51
75°	22	18	10	8	8	23
85°	2	1	1	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P859776

CATALOG NUMBER: LX4C08D010 EX4C089840 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	324.2	323.8	324.0	324.0	324.0	323.8	324.0	323.8	323.8	323.7	323.4
5°	325.0	324.9	324.9	324.9	324.7	324.6	324.6	324.4	324.2	324.1	323.6
7.5°	325.7	325.4	325.4	325.3	325.2	325.0	325.0	324.6	324.2	324.0	323.3
10°	326.0	325.7	325.7	325.4	325.2	325.0	324.9	324.3	323.8	323.2	322.4
12.5°	325.8	325.4	325.3	325.0	324.6	324.3	324.1	323.4	322.5	321.7	320.6
15°	325.0	324.9	324.6	324.2	323.6	323.2	323.0	322.0	320.8	319.6	318.3
17.5°	323.6	323.2	322.7	322.2	321.4	320.9	320.3	319.1	317.5	315.8	313.6
20°	318.3	318.0	317.5	316.7	315.2	314.8	313.9	312.3	310.1	308.1	305.9
22.5°	309.4	309.1	308.3	307.6	306.3	305.4	304.7	302.5	300.2	297.8	295.8
25°	298.1	297.8	296.8	295.8	294.5	293.0	292.3	290.5	288.2	285.4	282.2
27.5°	283.6	282.4	282.0	280.9	279.0	278.5	277.4	275.2	273.0	270.5	267.9
30°	264.8	264.8	264.0	263.5	261.7	261.3	260.0	257.7	256.5	253.0	250.9
32.5°	244.8	244.5	243.9	243.5	242.6	241.7	240.4	239.2	236.5	234.7	231.9
35°	224.2	222.7	222.9	222.1	221.5	220.5	220.4	219.1	216.6	215.6	213.1
37.5°	200.7	200.1	200.9	199.8	199.2	199.3	198.3	197.4	196.5	194.8	194.2
40°	179.5	180.0	179.9	178.9	179.3	178.7	177.7	176.8	176.4	175.2	174.9
42.5°	160.5	159.7	159.5	159.5	159.6	159.6	159.1	158.5	158.5	157.4	156.2
45°	142.6	142.6	142.3	143.1	142.0	142.0	141.6	141.5	141.0	140.7	139.4
47.5°	127.3	127.1	127.0	126.8	126.7	126.7	126.0	125.4	125.2	124.5	123.8
50°	112.7	113.4	113.2	112.5	112.4	112.4	111.9	111.6	111.5	110.2	110.3
52.5°	100.5	100.4	100.7	100.3	99.7	99.8	99.3	98.8	98.3	97.6	97.2
55°	88.5	89.1	88.9	88.5	88.4	88.1	87.7	87.1	87.0	85.6	85.5
57.5°	78.5	78.3	78.0	77.5	77.3	77.0	77.0	76.4	75.7	75.0	74.4
60°	68.7	68.7	68.3	68.1	67.7	67.5	67.4	66.9	66.0	65.5	64.4
62.5°	59.2	59.5	59.2	58.9	58.5	58.0	57.7	57.3	56.6	56.0	55.1
65°	50.9	50.7	50.7	50.1	50.0	49.5	49.4	48.7	47.9	47.4	46.5
67.5°	43.0	42.5	42.5	42.4	42.1	41.7	41.5	40.8	39.9	39.3	38.3
70°	35.4	35.1	35.1	35.1	34.5	34.2	34.0	33.6	32.4	31.9	30.9
72.5°	28.4	28.3	28.2	27.8	27.5	27.5	26.9	26.2	25.6	25.0	24.2
75°	21.8	21.9	21.8	21.2	21.1	20.9	20.5	19.9	19.3	18.5	17.7
77.5°	15.9	15.6	15.4	15.4	15.2	14.6	14.5	14.0	13.3	12.8	11.9
80°	10.4	10.3	10.1	9.8	9.7	9.5	9.5	8.9	8.2	7.8	7.0
82.5°	5.7	5.6	5.6	5.4	5.1	5.1	5.0	4.5	4.1	3.8	3.5
85°	2.0	2.0	2.0	1.9	1.9	1.9	1.7	1.6	1.5	1.3	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: P859776

CATALOG NUMBER: LX4C08D010 EX4C089840 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	323.2	323.0	322.8	322.7	322.5	322.5	322.4	322.1	322.0	321.8	321.6
5°	323.2	322.7	322.5	322.1	321.8	321.6	321.2	320.8	320.5	320.1	319.7
7.5°	322.7	322.0	321.5	320.8	320.5	320.1	319.3	318.9	318.3	317.5	316.7
10°	321.5	320.6	319.6	318.6	318.3	317.6	316.7	315.8	314.8	313.8	312.9
12.5°	319.5	318.1	316.8	315.5	314.8	314.2	312.8	311.6	310.3	309.2	307.7
15°	316.5	314.9	313.3	311.4	310.5	309.8	307.8	306.3	304.4	302.8	301.3
17.5°	311.7	309.2	307.2	304.8	303.6	302.7	301.0	298.6	296.8	295.2	293.4
20°	303.4	301.0	298.3	295.6	294.3	293.2	290.7	288.2	286.3	284.6	282.8
22.5°	292.4	289.5	287.5	284.2	283.1	281.8	278.8	276.5	274.4	272.7	270.9
25°	279.1	276.5	273.8	270.8	269.5	267.9	265.4	263.0	261.6	259.7	257.5
27.5°	263.9	261.7	258.4	255.8	254.4	253.2	250.8	248.7	246.7	245.4	243.4
30°	247.7	245.2	242.3	239.5	238.8	237.3	235.2	233.5	231.5	230.6	229.7
32.5°	230.0	227.1	224.9	223.2	221.7	220.4	219.3	216.7	216.3	214.1	213.8
35°	210.6	209.4	207.2	205.8	204.6	203.7	201.8	200.6	199.2	198.9	198.0
37.5°	192.3	190.9	188.9	187.5	186.6	186.6	185.2	184.4	183.4	183.0	181.9
40°	173.3	172.6	170.9	170.7	169.3	169.2	168.5	167.6	166.7	166.7	166.8
42.5°	155.6	154.9	154.2	153.3	152.6	152.6	152.1	152.0	151.7	151.3	152.0
45°	139.1	138.1	137.7	136.8	137.1	136.4	136.2	136.2	135.8	135.6	136.5
47.5°	123.8	122.6	122.2	121.9	121.9	122.0	120.9	121.3	121.1	121.4	121.7
50°	109.7	108.7	108.0	108.0	108.1	107.6	107.1	107.5	107.1	107.4	108.3
52.5°	96.7	95.7	95.3	95.3	94.6	94.4	94.7	94.2	94.3	94.4	95.0
55°	84.6	84.0	83.4	82.8	82.9	82.7	82.1	82.0	82.3	82.4	83.0
57.5°	73.8	72.9	72.1	71.9	71.6	71.6	71.0	70.9	71.2	70.5	70.5
60°	63.6	63.0	62.0	61.5	61.5	60.9	60.5	60.7	60.1	59.9	60.1
62.5°	54.0	53.6	52.9	52.2	51.9	51.6	51.0	50.7	50.5	50.0	49.3
65°	45.7	44.8	44.0	43.4	43.1	42.4	42.1	41.6	40.8	40.6	39.9
67.5°	37.4	36.5	35.6	35.2	34.9	34.5	33.9	33.3	32.4	31.4	30.5
70°	30.1	28.9	28.4	27.5	27.2	26.7	25.9	25.2	24.3	23.2	22.4
72.5°	22.9	22.2	21.5	20.6	20.0	19.6	18.9	17.8	16.9	16.2	15.4
75°	16.5	16.1	15.2	14.2	13.9	13.4	12.6	11.9	11.1	10.2	9.5
77.5°	11.1	10.4	9.8	8.9	8.6	8.2	7.7	7.0	6.6	6.0	5.4
80°	6.6	6.0	5.6	5.0	4.7	4.5	4.1	3.6	3.2	2.9	2.9
82.5°	3.2	2.8	2.6	2.2	2.1	2.0	1.7	1.6	1.3	1.3	1.3
85°	1.2	0.9	0.9	0.7	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: P859776

CATALOG NUMBER: LX4C08D010 EX4C089840 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	321.5	321.4	321.2	321.1	321.1	320.9	320.9	320.8	320.8	320.8	320.8
5°	319.2	318.9	318.6	318.4	318.4	318.0	317.7	317.5	317.4	317.4	317.1
7.5°	316.1	315.7	315.1	314.8	314.6	314.0	313.5	313.5	313.0	312.8	312.6
10°	312.0	311.1	310.4	310.1	309.5	309.2	308.5	308.2	307.8	307.2	307.0
12.5°	306.5	305.9	304.7	304.2	304.0	303.2	302.2	301.8	301.6	301.1	300.7
15°	300.2	298.7	297.8	297.1	297.1	295.9	295.4	294.6	294.2	293.8	293.7
17.5°	292.0	290.5	289.5	288.7	288.5	287.5	286.7	286.4	285.8	286.1	285.4
20°	281.3	280.3	279.5	278.4	278.4	277.8	277.5	276.9	276.6	276.4	276.6
22.5°	270.1	268.7	267.4	267.3	267.3	266.5	266.4	266.3	265.7	266.1	266.0
25°	256.8	255.8	255.0	254.9	254.9	254.4	254.0	254.2	254.6	254.4	254.9
27.5°	243.0	242.0	241.8	241.7	241.4	241.3	241.6	241.6	241.9	242.4	242.9
30°	228.1	227.8	227.5	227.4	227.1	227.8	228.0	228.4	228.3	229.0	229.5
32.5°	213.2	212.8	212.6	212.9	213.2	213.1	213.8	214.1	214.4	215.3	215.6
35°	198.2	198.1	197.9	197.9	198.0	198.9	198.9	199.8	200.3	200.6	201.5
37.5°	182.1	182.5	182.8	183.2	183.3	183.7	184.0	184.8	185.3	185.8	186.3
40°	167.3	167.0	168.2	167.5	167.6	168.8	169.3	169.2	169.9	170.7	171.1
42.5°	151.5	152.0	152.1	152.4	153.0	153.2	153.8	154.6	154.9	155.8	156.1
45°	136.3	136.4	136.9	137.4	137.8	138.8	139.0	139.4	140.1	140.1	140.5
47.5°	121.9	122.3	122.3	123.1	123.8	123.6	124.5	124.8	124.6	125.2	125.5
50°	108.1	108.9	108.7	109.2	109.5	109.6	110.3	110.6	110.1	110.8	110.8
52.5°	95.0	95.3	95.9	96.0	95.7	96.3	96.0	96.6	96.4	96.9	96.4
55°	82.9	82.8	82.8	83.0	82.8	83.0	83.3	82.8	82.4	82.9	82.8
57.5°	70.9	70.9	70.6	71.0	70.6	70.3	70.1	69.7	69.4	69.4	69.3
60°	59.6	59.3	58.9	58.7	58.7	58.1	57.9	57.3	57.3	56.8	56.4
62.5°	49.0	48.4	48.1	48.1	47.8	47.2	46.0	45.3	45.0	44.3	44.2
65°	39.1	38.4	38.1	37.4	36.7	36.5	35.4	34.5	34.2	33.4	33.5
67.5°	30.1	29.1	27.9	27.5	27.0	26.2	25.9	25.2	24.8	24.8	24.8
70°	21.6	20.7	19.6	19.3	19.0	18.3	17.8	17.7	18.1	18.0	18.1
72.5°	14.5	13.6	13.2	12.9	12.7	12.3	12.6	12.7	12.4	12.6	12.7
75°	8.8	8.6	8.2	8.0	8.0	8.2	8.0	8.0	8.2	8.2	8.3
77.5°	5.1	4.8	4.8	4.7	5.0	4.8	4.8	4.8	5.0	5.0	5.0
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°	1.3	1.3	1.3	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.3
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: P859776

CATALOG NUMBER: LX4C08D010 EX4C089840 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	320.5	320.5	320.5	320.2	320.3	320.3	320.2	320.2
5°	317.0	316.8	316.7	316.7	316.4	316.7	316.5	316.7
7.5°	312.3	312.3	311.9	311.9	311.8	311.7	311.6	311.7
10°	306.7	306.7	306.5	306.3	306.5	306.0	306.0	305.9
12.5°	300.5	300.2	300.0	300.2	300.0	299.6	299.5	299.6
15°	293.3	292.9	293.0	292.7	292.7	292.6	292.8	292.8
17.5°	285.4	285.1	284.8	285.0	284.7	284.8	284.7	284.6
20°	276.5	276.4	276.4	275.9	276.1	275.9	276.1	276.4
22.5°	266.4	266.3	266.4	266.0	266.3	266.3	266.6	266.6
25°	255.2	255.0	255.3	255.4	255.6	255.9	255.6	255.7
27.5°	242.7	243.2	243.5	243.6	244.2	243.8	243.5	243.9
30°	230.2	230.2	230.2	230.6	231.0	231.3	230.7	230.7
32.5°	215.8	216.4	216.4	216.6	217.0	217.0	217.0	217.5
35°	202.1	202.4	202.6	202.1	202.3	202.2	203.0	203.0
37.5°	186.6	186.6	186.8	187.7	187.7	187.3	187.5	187.5
40°	172.0	172.2	171.7	171.9	172.6	172.3	172.6	172.7
42.5°	156.1	156.9	156.4	156.7	156.5	156.7	156.8	156.8
45°	140.7	141.0	141.0	141.2	141.3	141.6	140.9	140.7
47.5°	125.8	126.0	126.4	125.7	126.4	125.7	126.4	125.6
50°	110.8	111.4	110.9	111.2	110.8	110.8	110.8	110.6
52.5°	96.6	96.4	96.4	96.3	96.3	96.6	96.3	96.7
55°	82.3	82.4	82.1	82.0	82.0	82.3	82.0	81.7
57.5°	68.8	69.0	68.5	68.8	67.9	68.3	68.4	68.5
60°	56.3	55.8	55.8	55.4	55.4	55.7	55.2	55.2
62.5°	43.6	43.8	43.4	44.0	44.0	44.4	44.2	44.4
65°	33.4	33.5	33.6	33.6	33.6	34.4	34.2	33.8
67.5°	25.2	25.3	25.4	25.3	25.7	25.4	25.4	25.6
70°	18.3	18.4	18.5	18.5	18.4	18.5	18.5	18.5
72.5°	12.7	12.8	12.7	12.8	12.9	12.8	12.8	12.9
75°	8.3	8.3	8.2	8.2	8.2	8.2	8.3	8.2
77.5°	4.8	5.0	4.8	5.0	5.0	5.0	5.0	5.0
80°	2.9	2.9	2.9	2.8	2.9	2.9	2.9	2.8
82.5°	1.5	1.5	1.3	1.3	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)