

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: P859736

Luminaire Tested: **LX4C08D010 EX4C089827 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859736
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-1)
Test Lab: INNOVATION CENTER
Issue Date: 2/9/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C08D010 EX4C089827 4LBLWW*
Description:
Light Source: -
Ballast/Driver: -

Summary

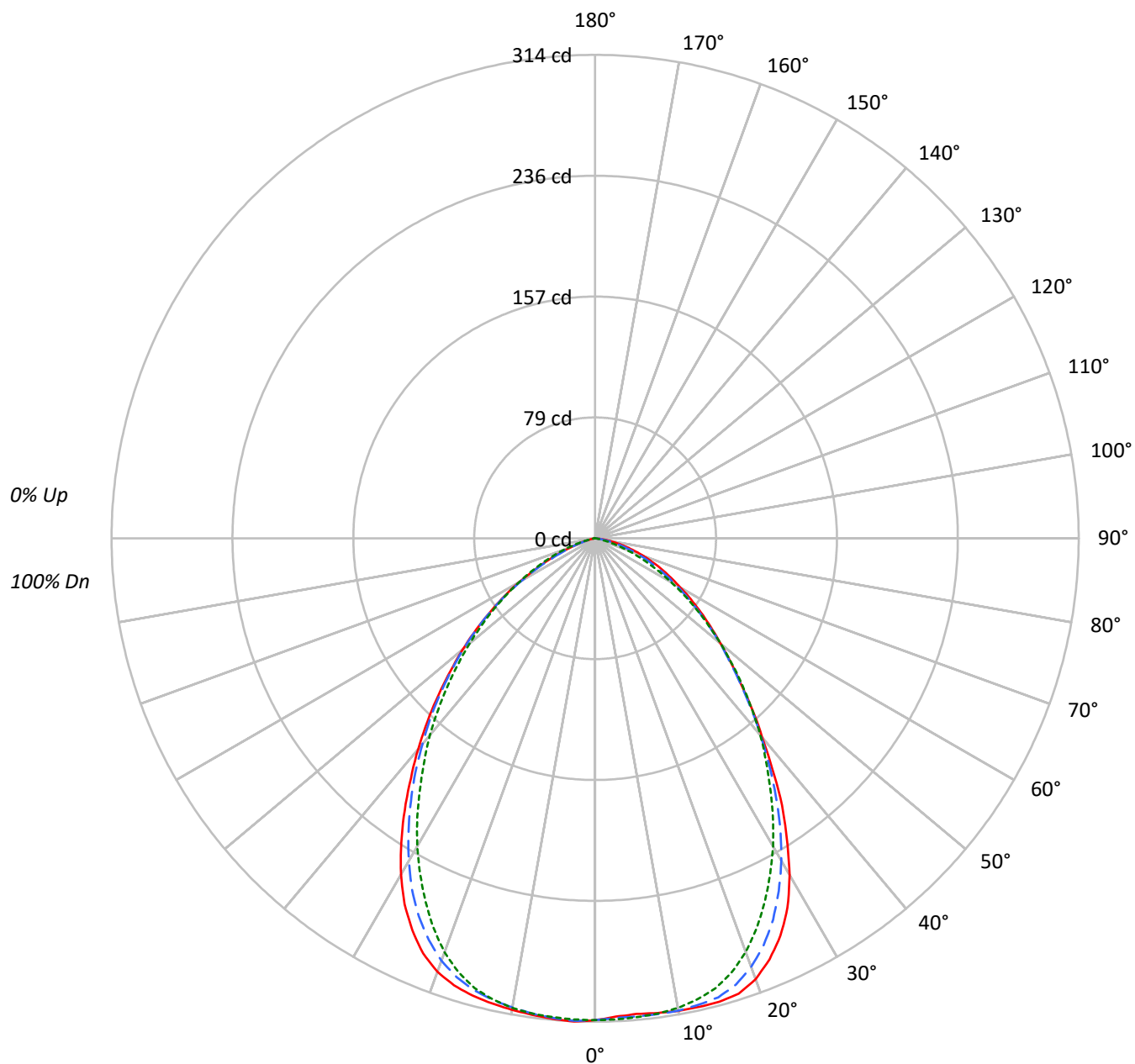
Lumens per Lamp: N/A
Luminaire Lumens: 600.2 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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
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	109	105	102	99		101	99	96			97	95	93			94
2	103	96	91	86	101	95	89	85		91	87	83			88	84	81			85
3	95	87	80	74	93	85	79	74		82	77	72			80	75	71			77
4	88	78	71	65	86	77	70	65		75	69	64			72	67	63			70
5	82	71	63	57	80	70	63	57		68	61	57			66	60	56			64
6	76	65	57	51	75	64	56	51		62	56	51			61	55	50			59
7	71	59	51	46	70	59	51	46		57	50	46			56	50	45			54
8	67	55	47	42	65	54	47	42		53	46	41			52	46	41			50
9	63	51	43	38	61	50	43	38		49	42	38			48	42	38			47
10	59	47	40	35	58	46	39	35		45	39	35			45	39	35			44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	38453	38453	38453
5°	38242	38501	38649
10°	38884	38635	38797
15°	39644	38474	39110
20°	39836	37391	39169
25°	38606	35312	38077
30°	35834	32769	35777
35°	31735	29710	32335
40°	27055	26766	28675
45°	23247	23507	24967
50°	20278	20336	21406
55°	17928	17178	17735
60°	15701	14005	13956
65°	13924	10872	9680
70°	11854	7471	5747
75°	9588	4035	2611
80°	6580	990	707
85°	1973	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.8	5.0
10°-20°	86.1	14.4
20°-30°	124.4	20.7
30°-40°	128.6	21.4
40°-50°	106.3	17.7
50°-60°	73.4	12.2
60°-70°	38.4	6.4
70°-80°	12.1	2.0
80°-90°	1.0	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°	240.3	40.0
0°-40°	369.0	61.5
0°-60°	548.6	91.4
0°-90°	600.2	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	600.2	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	313	313	313	313	313	
5°	310	312	312	313	313	30
15°	312	309	302	304	308	88
25°	285	273	260	271	281	130
35°	212	205	198	208	216	131
45°	134	133	135	142	144	104
55°	84	81	80	82	83	75
65°	48	43	37	31	33	47
75°	20	16	8	6	6	22
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°	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
2.5°	311.0	311.1	311.1	311.4	311.4	311.4	311.5	311.5	311.7	311.8	311.8
5°	310.1	310.1	310.3	310.4	310.7	310.8	311.0	311.1	311.4	311.5	311.7
7.5°	311.0	311.0	311.1	311.3	311.3	311.4	311.4	311.5	311.7	311.8	311.8
10°	311.7	311.7	311.7	311.7	311.8	311.8	311.8	311.7	311.7	311.7	311.5
12.5°	311.8	311.8	311.8	311.7	311.8	311.7	311.7	311.3	311.0	310.8	310.4
15°	311.7	311.7	311.5	311.4	311.3	311.0	311.0	310.3	309.9	309.2	308.7
17.5°	310.1	309.9	309.6	309.3	308.9	308.5	308.4	307.3	306.5	305.2	304.0
20°	304.7	304.4	304.1	303.5	302.9	302.5	301.8	300.2	299.4	297.7	296.3
22.5°	295.9	295.6	295.8	294.7	293.6	292.8	292.3	291.1	289.6	287.4	286.0
25°	284.8	284.1	284.1	282.5	281.9	281.4	280.8	279.3	277.2	275.2	273.3
27.5°	270.5	269.6	269.0	268.9	267.4	266.4	265.6	264.4	262.6	260.8	258.2
30°	252.6	252.5	251.9	250.8	249.8	249.3	248.4	246.4	244.7	243.4	241.8
32.5°	231.6	231.5	231.5	231.5	230.8	230.6	229.2	228.2	226.9	224.9	223.8
35°	211.6	211.4	211.6	209.8	209.4	209.0	208.8	208.2	206.4	205.5	204.6
37.5°	189.0	189.4	189.1	188.7	189.2	188.2	189.0	187.5	186.8	186.6	185.5
40°	168.7	169.6	168.7	168.8	169.4	168.4	168.4	168.1	167.6	167.4	167.1
42.5°	151.3	150.1	150.8	150.3	150.8	150.4	149.9	150.3	150.3	149.9	149.7
45°	133.8	134.0	134.2	133.9	133.9	133.5	134.5	133.9	133.9	134.0	133.2
47.5°	119.6	119.2	119.4	119.2	119.3	119.0	119.3	119.4	119.2	119.2	118.5
50°	106.1	105.9	106.7	106.0	106.0	105.9	106.0	105.8	105.4	105.4	105.7
52.5°	94.5	94.1	93.9	94.5	93.7	93.7	93.8	93.5	93.1	92.8	92.3
55°	83.7	83.6	83.7	83.2	83.0	83.0	82.4	82.1	82.0	81.5	81.1
57.5°	73.6	73.2	73.4	73.2	72.8	72.7	72.1	72.1	71.7	71.3	70.6
60°	63.9	63.9	64.3	63.8	63.5	63.2	63.0	62.8	62.0	61.1	60.5
62.5°	55.4	55.5	55.4	55.0	54.8	54.6	54.3	53.6	52.9	52.4	51.6
65°	47.9	47.7	47.4	47.2	46.5	46.5	46.1	45.7	44.9	44.2	43.3
67.5°	40.1	39.9	39.9	39.9	39.1	39.1	38.8	38.1	37.4	36.5	35.8
70°	33.0	33.3	32.9	32.5	32.2	32.1	31.7	31.0	30.2	29.2	28.7
72.5°	26.3	26.6	26.2	26.1	25.4	25.1	25.1	24.4	23.5	22.9	22.0
75°	20.2	20.3	20.1	19.9	19.4	19.3	18.7	18.2	17.7	16.7	15.9
77.5°	14.5	14.4	14.4	13.9	13.4	13.4	13.3	12.6	11.8	11.1	10.3
80°	9.3	9.2	8.8	8.6	8.2	8.1	8.0	7.4	6.8	6.3	5.9
82.5°	4.7	4.5	4.5	4.4	4.1	3.9	4.0	3.6	3.3	2.9	2.5
85°	1.4	1.5	1.5	1.4	1.3	1.3	1.3	1.2	1.0	0.8	0.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
2.5°	311.9	312.1	312.2	312.3	312.3	312.5	312.6	312.6	312.8	312.8	312.9
5°	311.8	311.9	311.9	312.1	312.1	312.1	312.2	312.2	312.2	312.2	312.3
7.5°	311.8	311.8	311.8	311.8	311.8	311.7	311.7	311.7	311.4	311.4	311.4
10°	311.3	311.1	311.0	310.8	310.7	310.6	310.3	310.1	309.9	309.7	309.5
12.5°	310.1	309.6	309.2	308.7	308.5	308.4	307.8	307.5	307.1	306.8	306.6
15°	307.7	307.0	306.2	305.2	305.1	304.8	304.0	303.3	302.8	302.5	301.9
17.5°	303.0	301.6	300.7	299.3	298.7	298.5	297.1	296.4	295.6	295.4	294.9
20°	294.7	293.4	291.6	290.4	289.6	288.9	287.9	287.0	286.0	286.0	285.4
22.5°	284.2	282.6	280.4	278.7	278.6	277.2	276.3	275.2	274.8	274.1	274.1
25°	271.1	269.7	267.2	265.7	265.1	264.8	263.2	261.8	261.1	260.5	260.9
27.5°	256.5	254.4	252.5	250.8	250.1	249.4	248.0	247.5	246.1	246.0	245.9
30°	239.8	237.6	235.8	235.0	233.8	233.2	232.1	231.5	231.0	231.0	230.8
32.5°	222.3	220.4	219.5	217.7	217.1	216.2	215.6	214.9	215.1	214.9	215.0
35°	203.3	202.9	201.1	200.1	200.1	199.9	198.8	198.3	198.1	198.1	198.8
37.5°	185.4	184.0	182.8	182.1	182.6	182.0	181.8	181.8	182.5	182.1	183.0
40°	166.2	166.1	165.6	165.9	166.0	165.2	165.4	165.5	166.0	166.9	167.0
42.5°	149.5	149.4	149.4	149.4	149.2	148.7	149.2	150.0	149.9	150.6	151.2
45°	133.4	133.2	133.7	133.3	134.0	134.2	133.9	134.1	134.8	135.3	136.3
47.5°	118.7	118.7	118.9	119.0	118.3	119.0	119.2	119.7	120.0	120.3	120.7
50°	105.0	105.0	104.9	104.9	104.9	105.2	104.8	105.3	105.4	106.4	107.0
52.5°	92.5	91.9	92.3	92.0	91.6	91.3	91.6	91.7	92.4	92.7	93.4
55°	80.5	80.5	79.5	79.4	79.7	79.5	79.5	79.5	79.8	80.2	80.8
57.5°	69.9	69.2	68.6	68.4	68.0	68.2	68.2	68.0	67.9	68.0	68.0
60°	59.9	59.5	58.4	58.4	58.3	58.2	57.6	57.5	56.9	57.0	56.5
62.5°	50.7	50.6	49.1	48.7	48.7	48.3	47.7	47.6	46.8	46.8	46.3
65°	42.5	41.8	41.0	40.2	40.2	39.8	39.4	38.3	37.7	37.4	36.7
67.5°	35.0	34.0	33.2	32.5	32.0	31.8	31.0	30.3	29.4	28.8	27.7
70°	27.7	26.9	26.1	25.4	24.9	24.4	23.6	22.6	21.8	20.8	20.1
72.5°	21.0	20.2	19.5	18.5	18.0	17.7	16.9	15.9	14.7	14.0	13.0
75°	15.1	14.3	13.3	12.5	12.1	11.8	10.8	10.1	9.3	8.5	7.5
77.5°	9.7	8.8	8.1	7.1	7.0	6.8	5.9	5.2	4.5	4.1	3.6
80°	5.2	4.7	4.1	3.6	3.3	2.9	2.5	2.1	1.8	1.4	1.2
82.5°	2.2	1.9	1.5	1.3	1.2	1.1	0.8	0.7	0.6	0.6	0.4
85°	0.6	0.4	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
2.5°	313.0	313.2	313.3	313.3	313.4	313.5	313.5	313.6	313.7	313.9	313.9
5°	312.5	312.5	312.5	312.6	312.6	312.6	312.6	312.8	312.8	312.9	313.0
7.5°	311.3	311.3	311.3	311.3	311.1	311.3	311.1	311.1	311.4	311.5	311.7
10°	309.3	309.3	309.3	309.2	309.2	309.2	309.3	309.3	309.5	309.6	310.0
12.5°	306.5	306.3	306.3	306.2	306.2	306.3	306.5	306.7	307.1	307.4	307.8
15°	301.8	301.6	301.8	301.9	302.1	302.5	302.8	303.2	303.9	304.4	305.1
17.5°	294.9	295.1	295.2	295.4	295.8	296.2	297.1	298.1	298.9	299.9	300.8
20°	285.5	286.0	286.1	287.0	287.1	288.2	289.3	290.7	292.0	293.2	294.5
22.5°	274.2	274.6	275.1	276.0	276.6	278.0	279.3	280.9	282.3	283.8	285.8
25°	261.5	261.5	263.0	263.0	264.4	265.6	267.1	268.9	270.9	273.0	274.2
27.5°	246.8	247.5	248.5	249.0	250.0	251.9	253.2	255.3	257.4	259.2	260.6
30°	231.6	232.0	233.8	234.1	234.9	236.5	238.3	240.2	241.9	243.9	245.2
32.5°	215.4	216.8	217.9	218.7	218.8	221.3	222.3	223.7	225.6	227.6	228.9
35°	199.8	200.5	202.0	202.4	203.1	204.6	206.4	207.6	208.5	209.8	211.3
37.5°	183.3	185.0	185.4	186.8	187.0	188.3	189.2	190.7	191.8	193.0	193.2
40°	167.8	168.5	169.7	170.1	170.3	172.1	173.3	173.6	174.2	175.2	176.7
42.5°	152.2	152.8	154.2	153.9	154.9	155.8	156.3	157.7	158.4	158.7	158.7
45°	136.8	137.1	138.0	138.5	139.0	139.6	140.6	141.3	141.5	142.6	142.9
47.5°	122.2	122.3	123.1	123.9	123.7	124.2	125.5	125.7	125.9	126.6	127.0
50°	107.6	108.3	109.2	109.0	109.7	110.0	111.1	111.3	111.3	111.5	111.6
52.5°	94.2	94.6	94.9	95.1	95.4	96.0	96.5	96.3	96.8	97.2	96.8
55°	80.8	81.1	81.7	82.0	82.0	82.0	81.8	82.8	82.4	82.3	82.4
57.5°	68.6	68.0	68.0	68.6	68.8	68.7	68.3	68.8	68.8	68.6	68.2
60°	56.6	56.3	56.2	56.3	55.8	55.5	55.7	55.5	54.9	54.7	54.8
62.5°	45.8	45.5	44.6	44.6	44.3	44.2	43.2	43.3	42.9	42.2	42.4
65°	35.8	35.0	34.4	34.3	33.5	32.8	32.5	31.7	31.0	30.9	31.0
67.5°	26.9	25.9	25.1	24.7	24.3	23.6	22.8	22.1	22.3	22.2	22.7
70°	18.7	18.0	17.1	16.6	16.9	16.1	15.6	15.6	15.8	15.9	16.1
72.5°	12.5	11.5	11.1	10.8	10.6	10.1	10.3	10.3	10.3	10.3	10.1
75°	7.0	6.6	6.2	6.2	5.9	5.9	5.9	5.9	5.8	5.6	5.6
77.5°	3.2	2.9	2.9	2.7	2.7	2.7	2.6	2.5	2.5	2.5	2.3
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
82.5°	0.4	0.4	0.6	0.6	0.6	0.4	0.6	0.6	0.4	0.4	0.6
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	313.0	313.0	313.0	313.0	313.0	313.0	313.0	313.0
2.5°	314.0	314.1	314.1	314.1	314.2	314.2	314.2	314.2
5°	313.2	313.3	313.3	313.3	313.4	313.4	313.4	313.4
7.5°	311.8	311.8	311.8	311.9	311.9	312.1	312.1	312.2
10°	310.1	310.3	310.4	310.6	310.7	310.8	310.8	311.0
12.5°	308.4	308.5	308.7	308.9	309.2	309.3	309.3	309.5
15°	305.8	306.2	306.5	306.6	307.0	307.3	307.4	307.5
17.5°	301.6	302.6	302.9	303.2	303.6	304.1	304.4	304.5
20°	295.8	296.8	297.3	297.8	298.6	299.2	299.4	299.6
22.5°	287.5	288.7	289.4	290.1	290.7	291.2	292.2	291.9
25°	275.7	277.8	278.6	278.9	280.3	280.9	281.4	280.9
27.5°	262.6	263.8	264.5	265.3	266.3	267.0	267.2	267.9
30°	246.7	248.7	248.6	249.4	250.6	251.3	251.6	252.2
32.5°	230.2	231.2	231.9	231.8	232.3	233.5	233.1	234.2
35°	212.8	212.9	214.0	213.9	214.9	214.9	214.9	215.6
37.5°	194.0	195.5	194.9	196.3	195.8	196.2	196.2	196.5
40°	177.0	177.5	177.5	178.0	178.3	178.0	178.2	178.8
42.5°	159.4	159.9	160.0	159.7	160.1	161.1	160.3	161.0
45°	142.9	143.3	143.7	143.4	144.0	143.7	144.0	143.7
47.5°	127.4	127.3	127.2	128.1	127.3	127.4	127.9	127.1
50°	111.6	112.3	111.8	112.2	112.4	112.4	112.0	112.0
52.5°	97.5	97.3	97.0	97.3	97.1	97.2	97.5	97.2
55°	82.8	83.4	83.1	83.0	83.1	83.1	83.8	82.8
57.5°	68.6	68.3	68.7	69.5	68.7	69.2	69.6	69.7
60°	54.9	54.9	55.6	55.3	55.9	56.5	57.0	56.8
62.5°	41.8	42.4	42.7	42.8	43.5	44.0	44.0	43.9
65°	31.0	31.8	31.8	32.4	32.5	32.5	32.8	33.3
67.5°	22.9	22.9	23.0	23.3	23.2	23.2	23.4	23.5
70°	16.0	15.8	16.1	16.0	16.0	15.9	16.0	16.0
72.5°	10.1	10.1	10.3	10.1	9.9	10.0	10.0	10.3
75°	5.4	5.6	5.4	5.4	5.5	5.3	5.4	5.5
77.5°	2.2	2.2	2.2	2.2	2.2	2.1	2.1	2.1
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0
82.5°	0.4	0.6	0.4	0.6	0.4	0.4	0.4	0.4
85°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.1	0.0	0.1	0.0	0.0	0.0	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)