

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: P859694

Luminaire Tested: **LX4C08D010 EX4C089040 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859694
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 EX4C089040 4LBLWW*
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 4000K, 90CRI LEDS AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

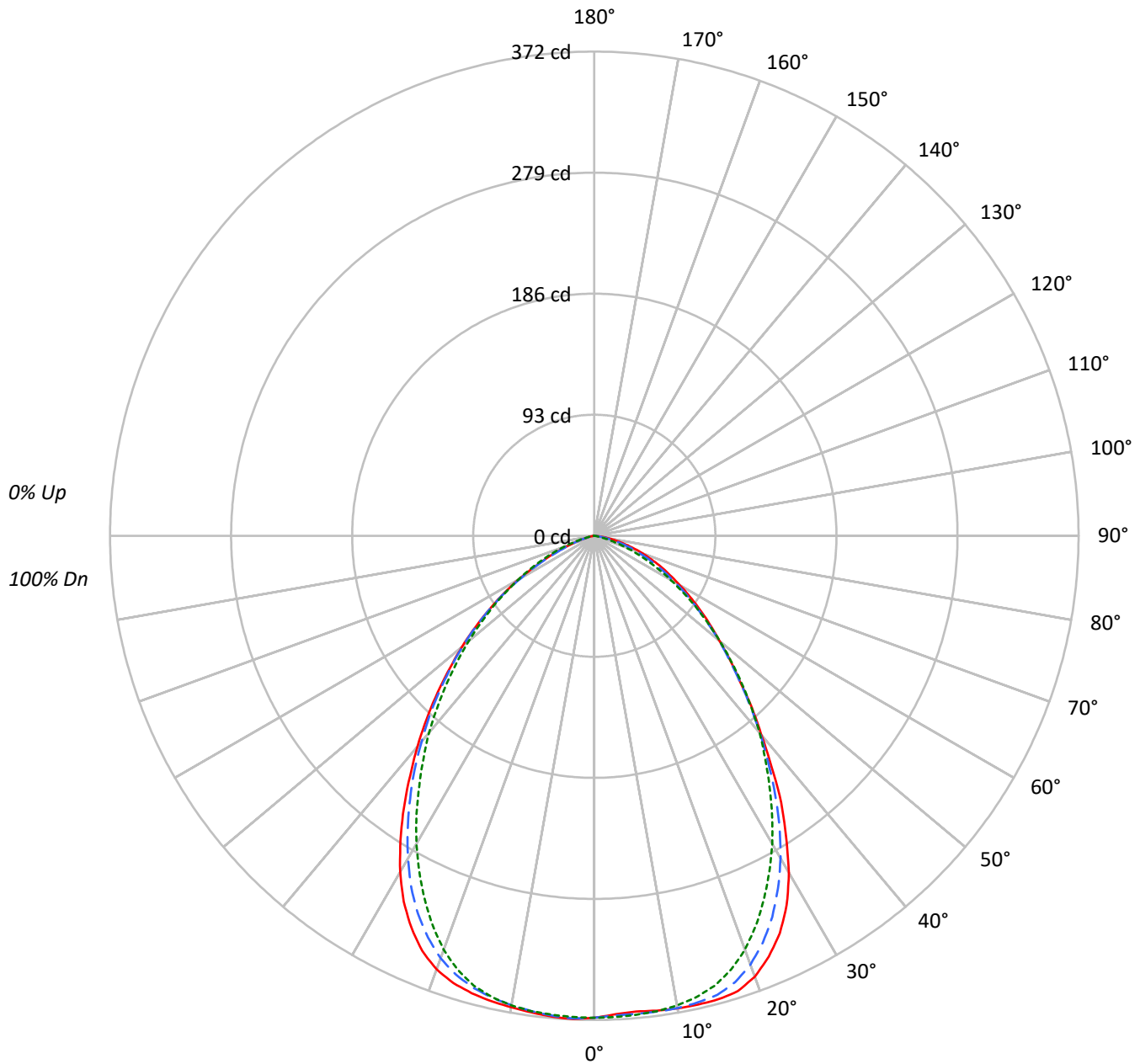
Lumens per Lamp: N/A
Luminaire Lumens: 710.0 lumens
Efficiency: N/A
Efficacy: 71.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	45493	45493	45493
5°	45247	45555	45728
10°	45995	45708	45883
15°	46894	45508	46271
20°	47131	44229	46347
25°	45682	41778	45058
30°	42402	38770	42317
35°	37539	35169	38244
40°	32011	31674	33919
45°	27503	27816	29553
50°	24005	24063	25324
55°	21205	20305	20990
60°	18600	16561	16512
65°	16453	12849	11453
70°	14045	8836	6789
75°	11345	4747	3085
80°	7782	1203	778
85°	2396	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.2	5.0
10°-20°	101.9	14.4
20°-30°	147.2	20.7
30°-40°	152.2	21.4
40°-50°	125.8	17.7
50°-60°	86.8	12.2
60°-70°	45.4	6.4
70°-80°	14.3	2.0
80°-90°	1.2	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°	284.3	40.0
0°-40°	436.5	61.5
0°-60°	649.0	91.4
0°-90°	710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	370	370	370	370	370	
5°	367	369	369	370	371	35
15°	369	365	358	360	364	104
25°	337	323	308	320	332	154
35°	250	242	234	247	255	155
45°	158	158	160	167	170	123
55°	99	96	95	98	98	89
65°	57	51	44	37	39	56
75°	24	19	10	7	6	26
85°	2	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°	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3
2.5°	368.0	368.1	368.1	368.4	368.4	368.4	368.5	368.5	368.7	368.8	368.9
5°	366.9	366.9	367.1	367.3	367.6	367.7	368.0	368.1	368.4	368.5	368.7
7.5°	368.0	368.0	368.1	368.2	368.2	368.4	368.4	368.5	368.7	368.8	368.8
10°	368.7	368.7	368.7	368.7	368.8	368.8	368.8	368.7	368.7	368.7	368.5
12.5°	368.9	368.9	368.8	368.7	368.8	368.7	368.7	368.2	368.0	367.7	367.3
15°	368.7	368.7	368.5	368.4	368.2	368.0	367.8	367.1	366.6	365.7	365.2
17.5°	366.9	366.6	366.3	366.0	365.5	365.1	364.8	363.5	362.5	361.2	359.6
20°	360.5	360.2	359.8	359.1	358.4	357.8	357.0	355.2	354.2	352.1	350.6
22.5°	350.0	349.8	349.9	348.6	347.2	346.4	345.9	344.3	342.7	340.0	338.3
25°	337.0	336.1	336.1	334.2	333.5	332.9	332.2	330.4	327.9	325.6	323.3
27.5°	320.0	318.9	318.3	318.0	316.4	315.1	314.2	312.8	310.7	308.6	305.5
30°	298.9	298.7	298.0	296.8	295.5	295.0	293.8	291.5	289.5	288.0	286.1
32.5°	274.0	273.8	273.8	273.8	273.0	272.8	271.2	269.9	268.4	266.0	264.8
35°	250.3	250.2	250.3	248.2	247.7	247.3	247.1	246.3	244.2	243.1	242.0
37.5°	223.6	224.0	223.8	223.2	223.9	222.6	223.6	221.8	221.0	220.7	219.4
40°	199.6	200.7	199.6	199.7	200.4	199.1	199.1	198.9	198.3	198.0	197.8
42.5°	179.0	177.6	178.4	177.7	178.4	178.0	177.3	177.7	177.9	177.3	177.2
45°	158.3	158.5	158.8	158.4	158.4	158.0	159.1	158.4	158.4	158.5	157.6
47.5°	141.4	141.0	141.3	141.0	141.2	140.9	141.2	141.3	141.0	141.0	140.2
50°	125.6	125.3	126.3	125.4	125.4	125.3	125.4	125.2	124.7	124.7	125.0
52.5°	111.8	111.3	111.1	111.8	110.8	110.8	111.0	110.7	110.1	109.9	109.2
55°	99.0	98.9	99.0	98.5	98.2	98.2	97.5	97.2	97.1	96.4	96.0
57.5°	87.1	86.6	86.8	86.6	86.1	85.9	85.4	85.4	84.8	84.3	83.6
60°	75.7	75.7	76.1	75.5	75.1	74.8	74.5	74.3	73.3	72.3	71.5
62.5°	65.5	65.6	65.5	65.1	64.8	64.5	64.2	63.4	62.6	62.0	61.1
65°	56.6	56.5	56.0	55.8	55.1	55.1	54.5	54.1	53.1	52.3	51.3
67.5°	47.4	47.1	47.1	47.1	46.3	46.2	45.9	45.1	44.2	43.1	42.3
70°	39.1	39.4	38.9	38.5	38.1	38.0	37.5	36.7	35.7	34.6	33.9
72.5°	31.2	31.4	31.0	30.9	30.0	29.8	29.6	28.9	27.8	27.1	26.0
75°	23.9	24.1	23.8	23.5	22.9	22.8	22.1	21.6	20.9	19.7	18.8
77.5°	17.2	17.0	17.0	16.4	15.9	15.9	15.7	14.9	13.9	13.1	12.2
80°	11.0	10.8	10.4	10.2	9.7	9.6	9.5	8.8	8.1	7.5	7.0
82.5°	5.6	5.4	5.3	5.1	4.9	4.6	4.7	4.2	3.9	3.3	2.9
85°	1.7	1.8	1.8	1.7	1.5	1.5	1.5	1.4	1.1	1.0	0.8
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°	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3
2.5°	369.1	369.2	369.4	369.5	369.5	369.6	369.8	369.9	370.1	370.1	370.2
5°	368.8	369.1	369.1	369.2	369.2	369.2	369.4	369.4	369.4	369.4	369.5
7.5°	368.9	368.9	368.9	368.8	368.8	368.7	368.7	368.7	368.4	368.4	368.4
10°	368.2	368.1	368.0	367.7	367.6	367.4	367.1	366.9	366.6	366.4	366.2
12.5°	366.9	366.3	365.7	365.2	364.9	364.8	364.2	363.8	363.4	363.0	362.7
15°	364.1	363.2	362.3	361.2	360.9	360.6	359.6	358.8	358.2	357.8	357.1
17.5°	358.5	356.8	355.7	354.1	353.4	353.1	351.6	350.7	349.8	349.5	348.9
20°	348.6	347.1	345.0	343.5	342.7	341.8	340.6	339.5	338.3	338.3	337.7
22.5°	336.3	334.3	331.7	329.7	329.6	327.9	326.8	325.6	325.1	324.3	324.3
25°	320.7	319.0	316.1	314.4	313.6	313.2	311.4	309.7	308.9	308.2	308.7
27.5°	303.4	300.9	298.7	296.6	295.9	295.1	293.4	292.7	291.2	291.1	290.9
30°	283.7	281.2	279.0	278.0	276.6	275.9	274.7	273.8	273.3	273.3	273.0
32.5°	263.0	260.8	259.6	257.6	256.9	255.9	255.0	254.2	254.5	254.2	254.4
35°	240.6	240.0	237.9	236.7	236.7	236.6	235.2	234.6	234.3	234.5	235.2
37.5°	219.3	217.6	216.2	215.4	216.1	215.3	215.1	215.1	216.0	215.4	216.5
40°	196.6	196.5	195.9	196.2	196.4	195.4	195.7	195.8	196.4	197.5	197.6
42.5°	176.9	176.8	176.8	176.8	176.5	175.9	176.5	177.4	177.3	178.1	178.8
45°	157.8	157.6	158.1	157.7	158.5	158.8	158.4	158.7	159.5	160.1	161.2
47.5°	140.5	140.5	140.6	140.9	140.0	140.7	141.0	141.6	142.0	142.3	142.8
50°	124.3	124.3	124.0	124.0	124.0	124.5	123.9	124.6	124.7	125.9	126.6
52.5°	109.4	108.8	109.2	108.9	108.3	108.1	108.3	108.5	109.3	109.6	110.4
55°	95.3	95.3	94.1	93.9	94.3	94.1	94.0	94.0	94.4	94.8	95.5
57.5°	82.7	81.9	81.1	80.9	80.5	80.7	80.7	80.5	80.2	80.4	80.5
60°	70.9	70.4	69.1	69.1	69.0	68.8	68.1	68.0	67.3	67.4	66.9
62.5°	60.1	59.8	58.1	57.6	57.6	57.2	56.5	56.3	55.3	55.3	54.8
65°	50.3	49.5	48.5	47.6	47.6	47.0	46.6	45.3	44.6	44.2	43.4
67.5°	41.4	40.2	39.2	38.4	37.8	37.7	36.7	35.9	34.8	34.1	32.8
70°	32.8	31.8	30.9	30.0	29.5	28.9	28.0	26.7	25.9	24.6	23.8
72.5°	24.8	23.9	23.1	22.0	21.3	20.9	19.9	18.8	17.4	16.5	15.4
75°	17.8	16.8	15.7	14.7	14.3	13.9	12.8	12.0	11.0	10.0	8.9
77.5°	11.5	10.4	9.6	8.5	8.3	8.1	7.0	6.1	5.4	4.9	4.2
80°	6.1	5.6	4.9	4.2	3.9	3.5	2.9	2.5	2.1	1.7	1.4
82.5°	2.6	2.2	1.8	1.5	1.4	1.3	1.0	0.8	0.7	0.7	0.6
85°	0.7	0.6	0.6	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°	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3
2.5°	370.3	370.5	370.6	370.6	370.8	370.9	370.9	371.0	371.2	371.3	371.3
5°	369.6	369.6	369.6	369.8	369.8	369.8	369.8	370.1	370.1	370.2	370.3
7.5°	368.2	368.2	368.2	368.2	368.1	368.2	368.1	368.1	368.4	368.5	368.7
10°	366.0	365.9	365.9	365.7	365.7	365.7	365.9	366.0	366.2	366.3	366.7
12.5°	362.5	362.4	362.4	362.3	362.3	362.4	362.5	362.8	363.4	363.7	364.2
15°	357.0	356.8	357.0	357.1	357.4	357.8	358.2	358.7	359.5	360.2	360.9
17.5°	348.9	349.1	349.2	349.5	349.9	350.4	351.6	352.7	353.6	354.8	355.9
20°	337.8	338.3	338.5	339.5	339.7	341.0	342.2	343.9	345.4	346.8	348.4
22.5°	324.4	324.9	325.4	326.5	327.2	328.9	330.4	332.4	334.0	335.8	338.1
25°	309.3	309.4	311.1	311.1	312.8	314.2	316.0	318.0	320.5	322.9	324.4
27.5°	292.0	292.7	294.0	294.5	295.8	298.0	299.5	302.1	304.6	306.6	308.3
30°	274.0	274.5	276.6	276.9	277.9	279.8	281.9	284.3	286.2	288.6	290.1
32.5°	254.9	256.4	257.7	258.7	258.9	261.9	263.0	264.6	266.9	269.2	270.8
35°	236.4	237.1	238.9	239.5	240.3	242.0	244.2	245.6	246.7	248.2	250.0
37.5°	216.8	218.9	219.3	221.0	221.3	222.8	223.9	225.6	227.0	228.3	228.6
40°	198.6	199.3	200.8	201.2	201.5	203.6	205.0	205.4	206.1	207.3	209.0
42.5°	180.1	180.8	182.5	182.0	183.3	184.3	185.0	186.6	187.3	187.7	187.7
45°	161.9	162.2	163.3	163.8	164.5	165.1	166.3	167.2	167.4	168.7	169.1
47.5°	144.5	144.8	145.6	146.6	146.3	147.0	148.4	148.8	148.9	149.8	150.2
50°	127.4	128.1	129.2	128.9	129.7	130.2	131.4	131.7	131.7	131.8	132.0
52.5°	111.4	111.9	112.2	112.5	112.9	113.6	114.2	113.9	114.5	115.0	114.6
55°	95.5	96.0	96.7	96.9	96.9	97.1	96.8	98.0	97.5	97.3	97.5
57.5°	81.1	80.5	80.4	81.1	81.4	81.2	80.8	81.4	81.4	81.1	80.7
60°	67.0	66.6	66.5	66.6	66.1	65.6	65.9	65.6	64.9	64.7	64.8
62.5°	54.2	53.8	52.7	52.7	52.4	52.3	51.2	51.3	50.8	49.9	50.2
65°	42.4	41.3	40.7	40.6	39.6	38.8	38.5	37.5	36.7	36.6	36.7
67.5°	31.8	30.6	29.6	29.2	28.6	28.0	27.0	26.1	26.4	26.3	26.8
70°	22.1	21.3	20.3	19.6	19.9	19.1	18.5	18.5	18.6	18.8	19.1
72.5°	14.7	13.6	13.2	12.8	12.5	12.0	12.2	12.2	12.1	12.2	12.0
75°	8.3	7.8	7.4	7.2	7.0	7.0	7.0	7.0	6.8	6.7	6.7
77.5°	3.8	3.5	3.3	3.2	3.2	3.2	3.1	2.9	2.9	2.9	2.8
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7
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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CATALOG NUMBER: LX4C08D010 EX4C089040 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	370.3	370.3	370.3	370.3	370.3	370.3	370.3	370.3
2.5°	371.4	371.6	371.6	371.6	371.7	371.7	371.7	371.7
5°	370.5	370.6	370.6	370.6	370.8	370.8	370.8	370.8
7.5°	368.8	368.9	368.9	369.1	369.1	369.2	369.2	369.4
10°	366.9	367.1	367.3	367.4	367.6	367.7	367.7	367.8
12.5°	364.8	365.1	365.2	365.5	365.7	365.9	366.0	366.2
15°	361.7	362.3	362.5	362.7	363.2	363.5	363.7	363.8
17.5°	356.8	358.0	358.4	358.7	359.2	359.8	360.2	360.3
20°	349.9	351.1	351.7	352.4	353.2	353.9	354.2	354.5
22.5°	340.2	341.5	342.4	343.2	343.9	344.6	345.7	345.3
25°	326.3	328.6	329.6	330.0	331.5	332.4	332.9	332.4
27.5°	310.7	312.1	312.9	313.9	315.0	315.8	316.1	316.9
30°	291.9	294.3	294.1	295.1	296.5	297.3	297.6	298.3
32.5°	272.4	273.5	274.4	274.2	274.8	276.3	275.8	277.0
35°	251.7	251.8	253.2	253.1	254.2	254.2	254.2	255.0
37.5°	229.6	231.3	230.6	232.2	231.7	232.1	232.1	232.4
40°	209.4	210.0	210.0	210.5	211.0	210.5	210.8	211.5
42.5°	188.6	189.1	189.3	189.0	189.4	190.7	189.7	190.5
45°	169.1	169.5	170.1	169.7	170.4	169.9	170.4	170.1
47.5°	150.7	150.6	150.5	151.6	150.6	150.7	151.3	150.3
50°	132.0	132.8	132.3	132.7	132.9	132.9	132.5	132.5
52.5°	115.3	115.1	114.7	115.1	114.9	115.0	115.3	115.0
55°	98.0	98.6	98.3	98.2	98.3	98.3	99.2	98.0
57.5°	81.1	80.8	81.2	82.2	81.2	81.9	82.3	82.5
60°	64.9	64.9	65.8	65.4	66.2	66.9	67.4	67.2
62.5°	49.5	50.2	50.5	50.6	51.5	52.0	52.0	51.9
65°	36.7	37.7	37.7	38.2	38.5	38.5	38.8	39.4
67.5°	27.1	27.1	27.3	27.5	27.4	27.4	27.7	27.8
70°	18.9	18.6	19.1	18.9	18.9	18.8	18.9	18.9
72.5°	12.0	12.0	12.1	12.0	11.7	11.8	11.8	12.1
75°	6.4	6.7	6.4	6.4	6.5	6.3	6.4	6.5
77.5°	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.1
82.5°	0.6	0.7	0.6	0.7	0.6	0.6	0.6	0.6
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)