

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: P859671

Luminaire Tested: **LX4C08D010 EX4C089035 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859671
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 EX4C089035 4LBLWW*
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

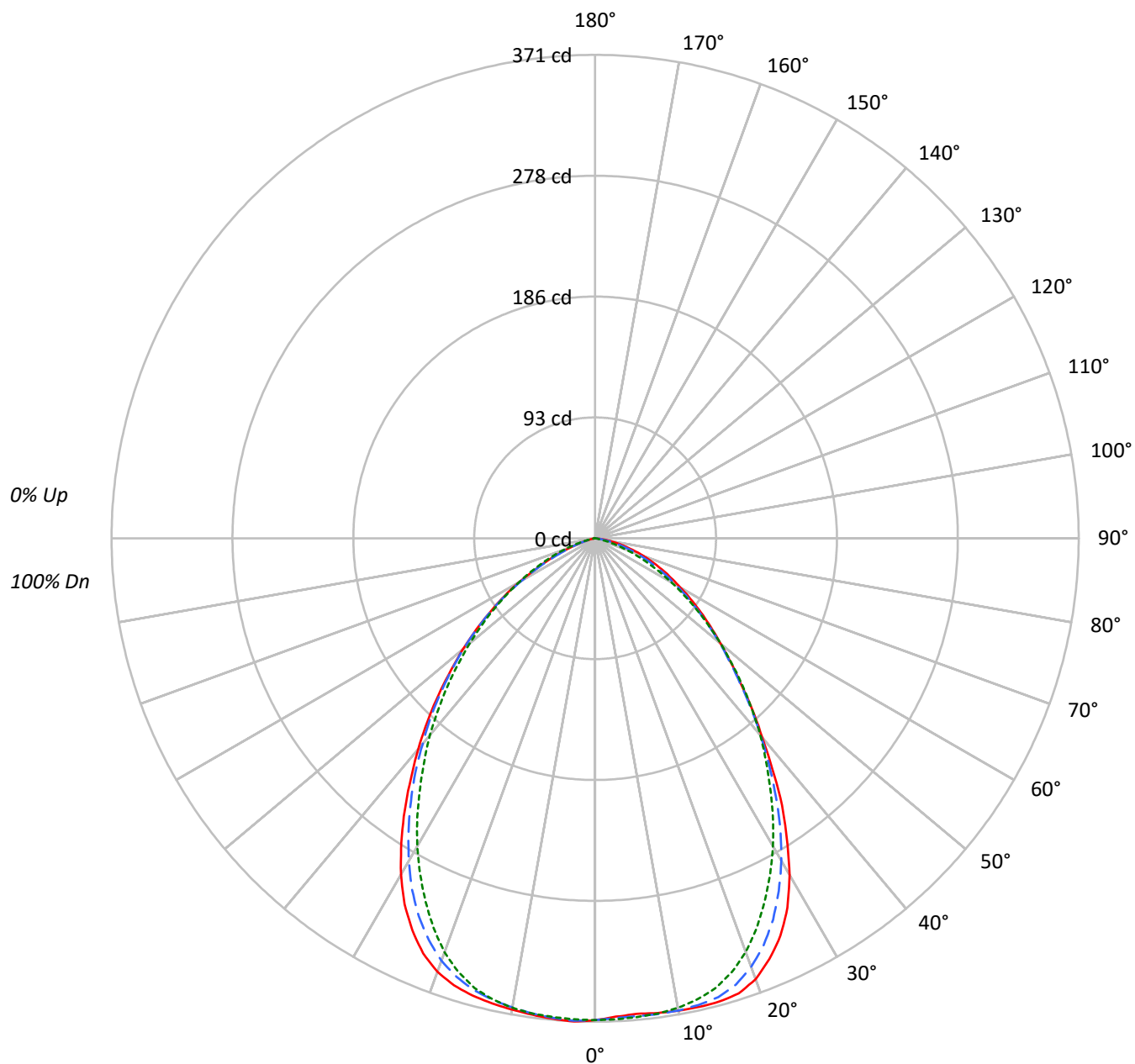
Lumens per Lamp: N/A
Luminaire Lumens: 709.0 lumens
Efficiency: N/A
Efficacy: 71.6 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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	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		109	105	102	99		101	99	96		97	95	93		94	92	91
2	103	96	91	86		101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	74		93	85	79	74		82	77	72		80	75	71		77	73	70
4	88	78	71	65		86	77	70	65		75	69	64		72	67	63		70	66	62
5	82	71	63	57		80	70	63	57		68	61	57		66	60	56		64	59	55
6	76	65	57	51		75	64	56	51		62	56	51		61	55	50		59	54	50
7	71	59	51	46		70	59	51	46		57	50	46		56	50	45		54	49	45
8	67	55	47	42		65	54	47	42		53	46	41		52	46	41		50	45	41
9	63	51	43	38		61	50	43	38		49	42	38		48	42	38		47	41	37
10	59	47	40	35		58	46	39	35		45	39	35		45	39	35		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	45431	45431	45431
5°	45173	45481	45654
10°	45920	45646	45820
15°	46818	45444	46207
20°	47066	44176	46281
25°	45614	41710	44990
30°	42331	38713	42260
35°	37494	35109	38199
40°	31963	31626	33871
45°	27451	27764	29501
50°	23967	24025	25286
55°	21183	20284	20969
60°	18551	16561	16487
65°	16424	12849	11424
70°	14009	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°	35.1	5.0
10°-20°	101.7	14.4
20°-30°	147.0	20.7
30°-40°	152.0	21.4
40°-50°	125.6	17.7
50°-60°	86.7	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°	283.9	40.0
0°-40°	435.9	61.5
0°-60°	648.1	91.4
0°-90°	709.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	709.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	370	370	370	370	370	
5°	366	368	369	370	370	35
15°	368	365	357	359	363	104
25°	336	323	308	320	332	154
35°	250	242	234	246	255	155
45°	158	157	160	167	170	123
55°	99	96	95	97	98	89
65°	56	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°	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8
2.5°	367.5	367.6	367.6	367.9	367.9	367.9	368.0	368.0	368.1	368.3	368.4
5°	366.3	366.3	366.6	366.8	367.0	367.2	367.5	367.6	367.9	368.0	368.1
7.5°	367.5	367.5	367.6	367.7	367.7	367.9	367.9	368.0	368.1	368.3	368.3
10°	368.1	368.1	368.1	368.1	368.3	368.3	368.3	368.1	368.1	368.1	368.0
12.5°	368.4	368.4	368.3	368.1	368.3	368.1	368.1	367.7	367.5	367.2	366.8
15°	368.1	368.1	368.0	367.9	367.7	367.5	367.3	366.6	366.1	365.2	364.7
17.5°	366.3	366.1	365.8	365.5	365.0	364.5	364.3	363.0	362.0	360.6	359.1
20°	360.0	359.7	359.3	358.6	357.9	357.3	356.5	354.7	353.7	351.6	350.1
22.5°	349.5	349.3	349.4	348.1	346.8	345.9	345.4	343.8	342.2	339.5	337.9
25°	336.5	335.7	335.7	333.7	333.0	332.5	331.8	330.0	327.5	325.1	322.9
27.5°	319.5	318.4	317.9	317.6	315.9	314.7	313.7	312.3	310.2	308.2	305.1
30°	298.4	298.3	297.6	296.4	295.1	294.5	293.4	291.1	289.1	287.6	285.7
32.5°	273.6	273.4	273.4	273.4	272.6	272.5	270.8	269.5	268.0	265.7	264.4
35°	250.0	249.8	250.0	247.9	247.3	246.9	246.8	245.9	243.9	242.7	241.6
37.5°	223.3	223.7	223.4	222.9	223.6	222.3	223.3	221.5	220.7	220.4	219.1
40°	199.3	200.4	199.3	199.4	200.1	198.9	198.9	198.6	198.0	197.8	197.5
42.5°	178.7	177.3	178.2	177.5	178.2	177.8	177.1	177.5	177.6	177.1	176.9
45°	158.0	158.3	158.6	158.2	158.2	157.8	158.9	158.2	158.2	158.3	157.3
47.5°	141.2	140.8	141.1	140.8	141.0	140.7	141.0	141.1	140.8	140.8	140.0
50°	125.4	125.1	126.1	125.3	125.3	125.1	125.3	125.0	124.6	124.6	124.8
52.5°	111.7	111.1	111.0	111.7	110.7	110.7	110.8	110.5	110.0	109.7	109.0
55°	98.9	98.7	98.9	98.3	98.0	98.0	97.3	97.1	96.9	96.2	95.8
57.5°	86.9	86.5	86.7	86.5	86.0	85.8	85.3	85.3	84.7	84.2	83.5
60°	75.5	75.5	76.0	75.4	75.0	74.7	74.4	74.2	73.2	72.2	71.4
62.5°	65.4	65.5	65.4	65.0	64.7	64.4	64.2	63.3	62.5	61.9	61.0
65°	56.5	56.4	56.0	55.7	55.0	55.0	54.4	54.0	53.0	52.2	51.2
67.5°	47.4	47.1	47.1	47.1	46.2	46.1	45.8	45.0	44.2	43.0	42.2
70°	39.0	39.3	38.9	38.5	38.1	37.9	37.5	36.7	35.7	34.6	33.9
72.5°	31.1	31.4	31.0	30.8	30.0	29.7	29.6	28.9	27.8	27.1	26.0
75°	23.9	24.0	23.7	23.5	22.9	22.8	22.1	21.5	20.8	19.7	18.7
77.5°	17.2	16.9	16.9	16.4	15.8	15.8	15.7	14.9	13.9	13.1	12.2
80°	11.0	10.8	10.4	10.1	9.7	9.6	9.4	8.7	8.1	7.5	6.9
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°	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8
2.5°	368.6	368.7	368.8	369.0	369.0	369.1	369.3	369.4	369.5	369.5	369.7
5°	368.3	368.6	368.6	368.7	368.7	368.7	368.8	368.8	368.8	368.8	369.0
7.5°	368.4	368.4	368.4	368.3	368.3	368.1	368.1	368.1	367.9	367.9	367.9
10°	367.7	367.6	367.5	367.2	367.0	366.9	366.6	366.3	366.1	365.9	365.6
12.5°	366.3	365.8	365.2	364.7	364.4	364.3	363.7	363.3	362.9	362.5	362.2
15°	363.6	362.7	361.8	360.6	360.4	360.1	359.1	358.3	357.7	357.3	356.6
17.5°	358.0	356.3	355.2	353.6	352.9	352.6	351.1	350.2	349.3	349.0	348.4
20°	348.1	346.6	344.5	343.0	342.2	341.3	340.1	339.0	337.9	337.9	337.2
22.5°	335.8	333.8	331.2	329.3	329.1	327.5	326.3	325.1	324.7	323.8	323.8
25°	320.2	318.6	315.7	314.0	313.2	312.7	310.9	309.3	308.4	307.7	308.3
27.5°	303.0	300.5	298.3	296.2	295.5	294.7	293.0	292.3	290.8	290.7	290.5
30°	283.3	280.8	278.6	277.6	276.2	275.5	274.3	273.4	272.9	272.9	272.6
32.5°	262.6	260.4	259.3	257.2	256.5	255.5	254.7	253.9	254.1	253.9	254.0
35°	240.2	239.7	237.6	236.4	236.4	236.2	234.8	234.3	234.0	234.1	234.8
37.5°	219.0	217.3	215.9	215.1	215.8	215.0	214.8	214.8	215.7	215.1	216.2
40°	196.4	196.2	195.7	195.9	196.1	195.1	195.4	195.5	196.1	197.2	197.3
42.5°	176.6	176.5	176.5	176.5	176.2	175.7	176.2	177.2	177.1	177.9	178.6
45°	157.6	157.3	157.9	157.5	158.3	158.6	158.2	158.5	159.3	159.8	161.0
47.5°	140.3	140.3	140.4	140.7	139.8	140.5	140.8	141.4	141.8	142.1	142.6
50°	124.2	124.2	123.9	123.9	123.9	124.3	123.7	124.4	124.6	125.7	126.4
52.5°	109.3	108.6	109.0	108.7	108.2	107.9	108.2	108.3	109.2	109.4	110.3
55°	95.1	95.1	94.0	93.7	94.2	94.0	93.9	93.9	94.3	94.7	95.4
57.5°	82.6	81.8	81.0	80.8	80.4	80.5	80.5	80.4	80.1	80.3	80.4
60°	70.8	70.3	69.0	69.0	68.9	68.7	68.0	67.9	67.2	67.4	66.8
62.5°	60.0	59.7	58.0	57.5	57.5	57.1	56.4	56.2	55.3	55.3	54.7
65°	50.3	49.4	48.5	47.5	47.5	46.9	46.5	45.3	44.6	44.2	43.3
67.5°	41.4	40.1	39.2	38.3	37.8	37.6	36.7	35.8	34.7	34.0	32.8
70°	32.8	31.8	30.8	30.0	29.4	28.9	27.9	26.7	25.8	24.6	23.7
72.5°	24.7	23.9	23.1	21.9	21.2	20.8	19.9	18.7	17.4	16.5	15.4
75°	17.8	16.8	15.7	14.7	14.3	13.9	12.8	11.9	11.0	10.0	8.9
77.5°	11.5	10.4	9.6	8.5	8.3	8.1	6.9	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	1.2	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°	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8
2.5°	369.8	370.0	370.1	370.1	370.2	370.4	370.4	370.5	370.6	370.8	370.8
5°	369.1	369.1	369.1	369.3	369.3	369.3	369.3	369.5	369.5	369.7	369.8
7.5°	367.7	367.7	367.7	367.7	367.6	367.7	367.6	367.6	367.9	368.0	368.1
10°	365.5	365.4	365.4	365.2	365.2	365.2	365.4	365.5	365.6	365.8	366.2
12.5°	362.0	361.9	361.9	361.8	361.8	361.9	362.0	362.3	362.9	363.1	363.7
15°	356.5	356.3	356.5	356.6	356.9	357.3	357.7	358.1	359.0	359.7	360.4
17.5°	348.4	348.6	348.7	349.0	349.4	350.0	351.1	352.2	353.1	354.3	355.4
20°	337.3	337.9	338.0	339.0	339.3	340.5	341.8	343.4	345.0	346.3	347.9
22.5°	324.0	324.4	325.0	326.1	326.8	328.4	330.0	331.9	333.6	335.4	337.6
25°	308.8	309.0	310.7	310.7	312.3	313.7	315.5	317.6	320.1	322.5	324.0
27.5°	291.6	292.3	293.6	294.1	295.4	297.6	299.1	301.6	304.1	306.2	307.9
30°	273.6	274.1	276.2	276.5	277.5	279.4	281.5	283.9	285.8	288.2	289.7
32.5°	254.6	256.1	257.3	258.3	258.6	261.5	262.6	264.3	266.5	268.9	270.4
35°	236.1	236.8	238.6	239.1	240.0	241.6	243.9	245.2	246.4	247.9	249.7
37.5°	216.5	218.6	219.0	220.7	220.9	222.5	223.6	225.2	226.6	228.0	228.3
40°	198.3	199.0	200.5	200.9	201.2	203.3	204.7	205.1	205.8	207.1	208.7
42.5°	179.8	180.5	182.2	181.8	183.0	184.0	184.7	186.4	187.1	187.5	187.5
45°	161.6	161.9	163.0	163.6	164.3	164.8	166.1	166.9	167.2	168.5	168.9
47.5°	144.3	144.6	145.4	146.4	146.1	146.8	148.2	148.6	148.7	149.6	150.0
50°	127.2	127.9	129.0	128.7	129.6	130.0	131.2	131.5	131.5	131.6	131.8
52.5°	111.2	111.8	112.1	112.3	112.8	113.5	114.0	113.7	114.3	114.8	114.4
55°	95.4	95.8	96.5	96.8	96.8	96.9	96.7	97.9	97.3	97.2	97.3
57.5°	81.0	80.4	80.3	81.0	81.2	81.1	80.7	81.2	81.2	81.0	80.5
60°	66.9	66.5	66.4	66.5	66.0	65.5	65.8	65.5	64.9	64.6	64.7
62.5°	54.2	53.7	52.6	52.6	52.4	52.2	51.1	51.2	50.7	49.9	50.1
65°	42.4	41.2	40.7	40.6	39.6	38.7	38.5	37.5	36.7	36.5	36.7
67.5°	31.8	30.6	29.6	29.2	28.6	27.9	26.9	26.1	26.4	26.2	26.8
70°	22.1	21.2	20.3	19.6	19.9	19.0	18.5	18.5	18.6	18.7	19.0
72.5°	14.7	13.6	13.2	12.8	12.5	11.9	12.2	12.2	12.1	12.2	11.9
75°	8.3	7.8	7.4	7.2	6.9	6.9	6.9	6.9	6.8	6.7	6.7
77.5°	3.7	3.5	3.3	3.2	3.2	3.2	3.1	2.9	2.9	2.9	2.8
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
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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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	369.8	369.8	369.8	369.8	369.8	369.8	369.8	369.8
2.5°	370.9	371.1	371.1	371.1	371.2	371.2	371.2	371.2
5°	370.0	370.1	370.1	370.1	370.2	370.2	370.2	370.2
7.5°	368.3	368.4	368.4	368.6	368.6	368.7	368.7	368.8
10°	366.3	366.6	366.8	366.9	367.0	367.2	367.2	367.3
12.5°	364.3	364.5	364.7	365.0	365.2	365.4	365.5	365.6
15°	361.2	361.8	362.0	362.2	362.7	363.0	363.1	363.3
17.5°	356.3	357.5	357.9	358.1	358.7	359.3	359.7	359.8
20°	349.4	350.6	351.2	351.9	352.7	353.4	353.7	354.0
22.5°	339.7	341.1	341.9	342.7	343.4	344.1	345.2	344.8
25°	325.8	328.2	329.1	329.5	331.1	331.9	332.5	331.9
27.5°	310.2	311.6	312.5	313.4	314.5	315.4	315.7	316.5
30°	291.5	293.9	293.7	294.7	296.1	296.9	297.2	297.9
32.5°	272.0	273.2	274.0	273.9	274.4	275.9	275.4	276.6
35°	251.4	251.5	252.9	252.7	253.9	253.9	253.9	254.7
37.5°	229.3	230.9	230.2	231.9	231.4	231.8	231.8	232.1
40°	209.1	209.7	209.7	210.3	210.7	210.3	210.5	211.2
42.5°	188.3	188.9	189.0	188.7	189.1	190.4	189.4	190.3
45°	168.9	169.3	169.8	169.4	170.1	169.7	170.1	169.8
47.5°	150.5	150.4	150.3	151.4	150.4	150.5	151.1	150.1
50°	131.8	132.6	132.1	132.5	132.8	132.8	132.3	132.3
52.5°	115.1	115.0	114.6	115.0	114.7	114.8	115.1	114.8
55°	97.9	98.5	98.2	98.0	98.2	98.2	99.0	97.9
57.5°	81.0	80.7	81.1	82.1	81.1	81.8	82.2	82.4
60°	64.9	64.9	65.7	65.3	66.1	66.8	67.4	67.1
62.5°	49.4	50.1	50.4	50.5	51.4	51.9	51.9	51.8
65°	36.7	37.6	37.6	38.2	38.5	38.5	38.7	39.3
67.5°	27.1	27.1	27.2	27.5	27.4	27.4	27.6	27.8
70°	18.9	18.6	19.0	18.9	18.9	18.7	18.9	18.9
72.5°	11.9	11.9	12.1	11.9	11.7	11.8	11.8	12.1
75°	6.4	6.7	6.4	6.4	6.5	6.2	6.4	6.5
77.5°	2.6	2.6	2.6	2.6	2.6	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	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)