

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: P859801

Luminaire Tested: **LX4C08D010 EX4C089030 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859801
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 EX4C089030 4LBLWW*
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 4LRLWW TRIM WITH * FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Summary

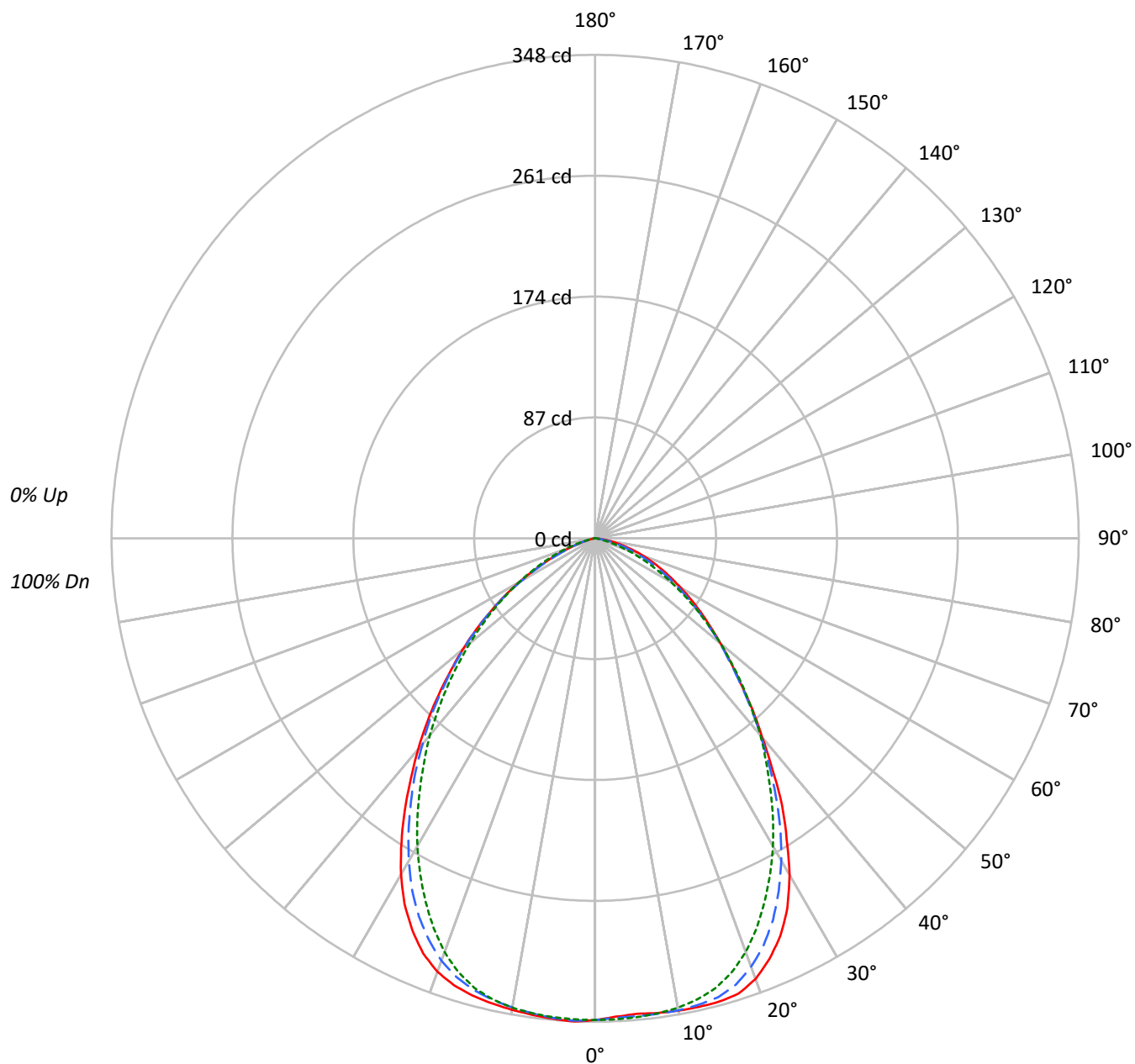
Lumens per Lamp: N/A
Luminaire Lumens: 665.0 lumens
Efficiency: N/A
Efficacy: 62.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 10.7
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	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	111	107	104	101	109	105	102	99	101	99	96	97	95	93	94	92	91	89		
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78		
3	95	87	80	74	93	85	79	74	82	77	72	80	75	71	77	73	70	68		
4	88	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60		
5	82	71	63	57	80	70	63	57	68	61	57	66	60	56	64	59	55	54		
6	76	65	57	51	75	64	56	51	62	56	51	61	55	50	59	54	50	48		
7	71	59	51	46	70	59	51	46	57	50	46	56	50	45	54	49	45	43		
8	67	55	47	42	65	54	47	42	53	46	41	52	46	41	50	45	41	39		
9	63	51	43	38	61	50	43	38	49	42	38	48	42	38	47	41	37	36		
10	59	47	40	35	58	46	39	35	45	39	35	45	39	35	44	38	34	33		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	42606	42606	42606
5°	42374	42670	42818
10°	43076	42814	42988
15°	43918	42633	43345
20°	44137	41431	43405
25°	42781	39121	42198
30°	39706	36302	39635
35°	35169	32935	35829
40°	29990	29669	31770
45°	25748	26044	27677
50°	22476	22534	23738
55°	19855	19020	19684
60°	17421	15529	15455
65°	15407	12035	10727
70°	13147	8298	6358
75°	10633	4462	2895
80°	7287	1061	707
85°	2114	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.0	5.0
10°-20°	95.4	14.4
20°-30°	137.9	20.7
30°-40°	142.6	21.4
40°-50°	117.8	17.7
50°-60°	81.3	12.2
60°-70°	42.6	6.4
70°-80°	13.4	2.0
80°-90°	1.1	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°	266.3	40.0
0°-40°	408.8	61.5
0°-60°	607.9	91.4
0°-90°	665.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	665.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	347	347	347	347	347	
5°	344	345	346	347	347	33
15°	345	342	335	337	341	97
25°	316	303	289	300	311	144
35°	234	227	220	231	239	146
45°	148	148	150	157	159	116
55°	93	90	89	91	92	83
65°	53	48	41	34	37	53
75°	22	18	9	6	6	24
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°	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8
2.5°	344.7	344.8	344.8	345.0	345.0	345.0	345.1	345.1	345.3	345.4	345.5
5°	343.6	343.6	343.9	344.0	344.3	344.4	344.7	344.8	345.0	345.1	345.3
7.5°	344.7	344.7	344.8	344.9	344.9	345.0	345.0	345.1	345.3	345.4	345.4
10°	345.3	345.3	345.3	345.3	345.4	345.4	345.4	345.3	345.3	345.3	345.1
12.5°	345.5	345.5	345.4	345.3	345.4	345.3	345.3	344.9	344.7	344.4	344.0
15°	345.3	345.3	345.1	345.0	344.9	344.7	344.6	343.9	343.3	342.6	342.0
17.5°	343.6	343.3	343.0	342.9	342.3	341.9	341.6	340.5	339.5	338.3	336.9
20°	337.6	337.3	337.0	336.3	335.6	335.2	334.4	332.7	331.7	329.8	328.3
22.5°	327.8	327.6	327.8	326.5	325.3	324.4	324.0	322.5	320.9	318.4	316.9
25°	315.6	314.8	314.8	313.0	312.4	311.8	311.2	309.5	307.1	305.0	302.9
27.5°	299.7	298.7	298.1	297.9	296.3	295.2	294.2	293.0	291.0	289.0	286.1
30°	279.9	279.8	279.1	278.0	276.8	276.3	275.2	273.0	271.2	269.8	267.9
32.5°	256.6	256.5	256.5	256.5	255.6	255.6	254.0	252.8	251.4	249.2	248.0
35°	234.5	234.4	234.5	232.5	232.0	231.6	231.4	230.7	228.8	227.7	226.7
37.5°	209.5	209.9	209.6	209.1	209.7	208.5	209.5	207.8	207.0	206.7	205.6
40°	187.0	187.9	187.0	187.1	187.7	186.5	186.5	186.3	185.7	185.4	185.2
42.5°	167.7	166.3	167.1	166.4	167.1	166.7	166.1	166.4	166.6	166.1	166.0
45°	148.2	148.5	148.8	148.4	148.4	148.0	149.1	148.4	148.4	148.5	147.5
47.5°	132.4	132.0	132.3	132.0	132.2	132.0	132.2	132.3	132.0	132.0	131.3
50°	117.6	117.3	118.3	117.5	117.5	117.3	117.5	117.2	116.8	116.8	117.1
52.5°	104.7	104.2	104.0	104.7	103.8	103.8	103.9	103.6	103.2	102.9	102.2
55°	92.7	92.6	92.7	92.2	92.0	92.0	91.3	91.0	90.9	90.2	89.9
57.5°	81.5	81.1	81.3	81.1	80.7	80.5	80.0	80.0	79.4	78.9	78.3
60°	70.9	70.9	71.2	70.7	70.3	70.1	69.8	69.5	68.7	67.7	67.0
62.5°	61.4	61.5	61.4	61.0	60.7	60.4	60.1	59.4	58.6	58.1	57.2
65°	53.0	52.9	52.5	52.2	51.6	51.6	51.0	50.6	49.8	49.0	48.1
67.5°	44.5	44.2	44.2	44.2	43.4	43.2	42.9	42.2	41.4	40.4	39.6
70°	36.6	36.9	36.5	36.1	35.7	35.5	35.2	34.4	33.4	32.4	31.8
72.5°	29.2	29.4	29.1	28.9	28.1	27.8	27.7	27.1	26.0	25.4	24.3
75°	22.4	22.5	22.2	22.0	21.5	21.4	20.7	20.2	19.6	18.5	17.6
77.5°	16.2	15.9	15.9	15.4	14.8	14.8	14.7	14.0	13.0	12.3	11.5
80°	10.3	10.2	9.8	9.5	9.1	9.0	8.8	8.2	7.6	7.0	6.6
82.5°	5.2	5.0	4.9	4.8	4.6	4.3	4.5	3.9	3.6	3.1	2.8
85°	1.5	1.7	1.7	1.5	1.4	1.4	1.4	1.3	1.0	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°	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8
2.5°	345.7	345.8	346.0	346.1	346.1	346.2	346.4	346.5	346.6	346.6	346.8
5°	345.4	345.7	345.7	345.8	345.8	345.8	346.0	346.0	346.0	346.0	346.1
7.5°	345.5	345.5	345.5	345.4	345.4	345.3	345.3	345.3	345.0	345.0	345.0
10°	344.9	344.8	344.7	344.4	344.3	344.1	343.9	343.6	343.3	343.2	343.0
12.5°	343.6	343.0	342.6	342.0	341.8	341.6	341.1	340.8	340.4	340.0	339.7
15°	341.0	340.2	339.3	338.3	338.0	337.7	336.9	336.0	335.5	335.2	334.5
17.5°	335.8	334.2	333.2	331.6	331.0	330.7	329.3	328.5	327.6	327.4	326.8
20°	326.5	325.1	323.2	321.8	320.9	320.2	319.0	318.0	316.9	316.9	316.3
22.5°	314.9	313.1	310.6	308.8	308.7	307.1	306.1	305.0	304.6	303.7	303.7
25°	300.4	298.8	296.0	294.5	293.7	293.4	291.6	290.0	289.3	288.6	289.2
27.5°	284.2	281.9	279.8	277.9	277.2	276.4	274.8	274.2	272.7	272.6	272.5
30°	265.7	263.3	261.2	260.4	259.1	258.4	257.3	256.5	255.9	255.9	255.6
32.5°	246.3	244.2	243.2	241.2	240.5	239.7	238.9	238.1	238.4	238.1	238.3
35°	225.3	224.8	222.9	221.7	221.7	221.5	220.2	219.7	219.4	219.6	220.2
37.5°	205.4	203.9	202.5	201.8	202.4	201.6	201.5	201.5	202.3	201.8	202.8
40°	184.2	184.0	183.5	183.8	183.9	183.0	183.3	183.4	183.9	185.0	185.1
42.5°	165.7	165.6	165.6	165.6	165.3	164.7	165.3	166.2	166.1	166.8	167.5
45°	147.8	147.5	148.1	147.7	148.5	148.8	148.4	148.6	149.4	149.9	151.0
47.5°	131.6	131.6	131.7	132.0	131.2	131.9	132.0	132.6	133.0	133.3	133.8
50°	116.5	116.5	116.2	116.2	116.2	116.6	116.1	116.7	116.8	117.9	118.6
52.5°	102.5	101.8	102.2	102.0	101.5	101.2	101.5	101.6	102.4	102.6	103.5
55°	89.2	89.2	88.2	87.9	88.4	88.2	88.1	88.1	88.4	88.8	89.5
57.5°	77.5	76.8	75.9	75.8	75.4	75.5	75.5	75.4	75.1	75.2	75.4
60°	66.4	65.9	64.7	64.7	64.6	64.5	63.8	63.6	63.1	63.2	62.6
62.5°	56.2	56.0	54.4	54.0	54.0	53.6	52.9	52.7	51.9	51.9	51.3
65°	47.1	46.4	45.5	44.6	44.6	44.0	43.6	42.5	41.8	41.4	40.7
67.5°	38.9	37.6	36.8	35.9	35.4	35.3	34.4	33.6	32.6	31.9	30.8
70°	30.8	29.8	28.9	28.1	27.6	27.1	26.2	25.0	24.2	23.1	22.2
72.5°	23.2	22.4	21.7	20.6	20.0	19.6	18.6	17.6	16.2	15.5	14.4
75°	16.6	15.8	14.7	13.8	13.4	13.0	12.0	11.2	10.3	9.4	8.4
77.5°	10.8	9.8	9.0	8.0	7.8	7.6	6.6	5.7	5.0	4.6	3.9
80°	5.7	5.2	4.6	3.9	3.6	3.2	2.8	2.4	2.0	1.5	1.3
82.5°	2.5	2.1	1.7	1.4	1.3	1.1	1.0	0.8	0.7	0.7	0.5
85°	0.7	0.5	0.5	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°	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8
2.5°	346.8	347.0	347.1	347.1	347.2	347.4	347.4	347.5	347.6	347.8	347.8
5°	346.2	346.2	346.2	346.4	346.4	346.4	346.4	346.6	346.6	346.8	346.8
7.5°	344.9	344.9	344.9	344.9	344.8	344.9	344.8	344.8	345.0	345.1	345.3
10°	342.9	342.7	342.7	342.6	342.6	342.6	342.7	342.9	343.0	343.0	343.5
12.5°	339.5	339.4	339.4	339.3	339.3	339.4	339.5	339.8	340.4	340.6	341.1
15°	334.4	334.2	334.4	334.5	334.8	335.2	335.5	335.9	336.7	337.3	338.0
17.5°	326.8	326.9	327.1	327.4	327.8	328.2	329.3	330.3	331.3	332.3	333.4
20°	316.3	316.9	317.0	318.0	318.2	319.4	320.5	322.1	323.6	324.8	326.3
22.5°	303.9	304.3	304.8	305.8	306.5	308.1	309.5	311.3	312.8	314.5	316.6
25°	289.7	289.8	291.4	291.4	293.0	294.2	295.9	297.9	300.2	302.5	303.9
27.5°	273.5	274.2	275.3	275.9	277.0	279.1	280.5	282.9	285.3	287.2	288.8
30°	256.6	257.2	259.1	259.3	260.2	262.1	264.0	266.2	268.1	270.3	271.7
32.5°	238.7	240.2	241.4	242.2	242.5	245.3	246.3	247.9	249.9	252.1	253.6
35°	221.4	222.1	223.8	224.3	225.1	226.7	228.8	230.0	231.0	232.5	234.2
37.5°	203.1	205.0	205.4	207.0	207.2	208.6	209.7	211.3	212.6	213.8	214.1
40°	186.0	186.7	188.1	188.5	188.8	190.7	192.0	192.4	193.0	194.2	195.8
42.5°	168.7	169.3	170.9	170.5	171.7	172.6	173.3	174.8	175.5	175.8	175.8
45°	151.6	151.9	153.0	153.4	154.1	154.6	155.8	156.6	156.8	158.0	158.4
47.5°	135.4	135.6	136.4	137.3	137.0	137.7	139.0	139.4	139.5	140.3	140.7
50°	119.3	120.0	121.0	120.7	121.5	121.9	123.1	123.3	123.3	123.5	123.6
52.5°	104.3	104.9	105.1	105.4	105.7	106.4	107.0	106.7	107.2	107.7	107.4
55°	89.5	89.9	90.5	90.8	90.8	90.9	90.6	91.9	91.3	91.2	91.3
57.5°	75.9	75.4	75.2	75.9	76.2	76.1	75.7	76.2	76.2	75.9	75.5
60°	62.8	62.4	62.2	62.4	61.8	61.5	61.8	61.5	60.8	60.6	60.7
62.5°	50.8	50.4	49.4	49.4	49.1	49.0	48.0	48.1	47.5	46.7	47.0
65°	39.7	38.7	38.2	38.0	37.1	36.4	36.1	35.2	34.4	34.3	34.4
67.5°	29.8	28.7	27.7	27.4	26.8	26.2	25.3	24.5	24.8	24.6	25.2
70°	20.7	20.0	19.0	18.3	18.6	17.9	17.3	17.3	17.5	17.6	17.9
72.5°	13.8	12.7	12.4	12.0	11.7	11.2	11.5	11.5	11.3	11.5	11.2
75°	7.8	7.3	6.9	6.7	6.6	6.6	6.6	6.6	6.4	6.3	6.3
77.5°	3.5	3.2	3.1	3.0	3.0	3.0	2.8	2.8	2.8	2.8	2.6
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°	0.5	0.5	0.7	0.7	0.7	0.5	0.7	0.7	0.5	0.5	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 EX4C089030 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	346.8	346.8	346.8	346.8	346.8	346.8	346.8	346.8
2.5°	347.9	348.1	348.1	348.1	348.2	348.2	348.2	348.2
5°	347.0	347.1	347.1	347.1	347.2	347.2	347.2	347.2
7.5°	345.4	345.5	345.5	345.7	345.7	345.8	345.8	346.0
10°	343.6	343.9	344.0	344.1	344.3	344.4	344.4	344.6
12.5°	341.6	341.9	342.0	342.3	342.6	342.7	342.9	343.0
15°	338.8	339.3	339.5	339.7	340.2	340.5	340.6	340.8
17.5°	334.2	335.3	335.6	335.9	336.5	337.0	337.3	337.4
20°	327.8	328.9	329.4	330.0	330.9	331.5	331.7	332.0
22.5°	318.6	319.9	320.7	321.5	322.1	322.8	323.9	323.4
25°	305.6	307.8	308.7	309.1	310.6	311.3	311.8	311.3
27.5°	291.0	292.3	293.1	294.0	295.0	295.8	296.0	296.9
30°	273.4	275.6	275.5	276.4	277.7	278.4	278.7	279.4
32.5°	255.2	256.2	257.0	256.9	257.4	258.8	258.3	259.4
35°	235.8	235.9	237.2	237.0	238.1	238.1	238.1	238.9
37.5°	215.1	216.6	215.9	217.6	217.0	217.4	217.4	217.6
40°	196.2	196.6	196.6	197.2	197.6	197.2	197.5	198.1
42.5°	176.6	177.2	177.3	177.0	177.4	178.6	177.6	178.4
45°	158.4	158.7	159.3	158.9	159.6	159.1	159.6	159.3
47.5°	141.2	141.1	141.0	141.9	141.1	141.2	141.7	140.8
50°	123.6	124.4	123.9	124.3	124.5	124.5	124.2	124.2
52.5°	108.0	107.8	107.4	107.8	107.6	107.7	108.0	107.7
55°	91.9	92.3	92.1	92.0	92.1	92.1	92.9	91.9
57.5°	75.9	75.7	76.1	77.0	76.1	76.8	77.1	77.2
60°	60.8	60.8	61.7	61.2	62.0	62.6	63.2	62.9
62.5°	46.4	47.0	47.3	47.4	48.2	48.7	48.7	48.5
65°	34.4	35.3	35.3	35.8	36.1	36.1	36.4	36.9
67.5°	25.4	25.4	25.6	25.7	25.6	25.6	25.9	26.0
70°	17.7	17.5	17.9	17.7	17.7	17.6	17.7	17.7
72.5°	11.2	11.2	11.3	11.2	10.9	11.1	11.1	11.3
75°	6.0	6.3	6.0	6.0	6.1	5.9	6.0	6.1
77.5°	2.5	2.5	2.5	2.5	2.5	2.4	2.4	2.4
80°	1.1	1.1	1.1	1.1	1.1	1.1	1.0	1.0
82.5°	0.5	0.7	0.5	0.7	0.5	0.5	0.5	0.5
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)