

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: P859814

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

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859814
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

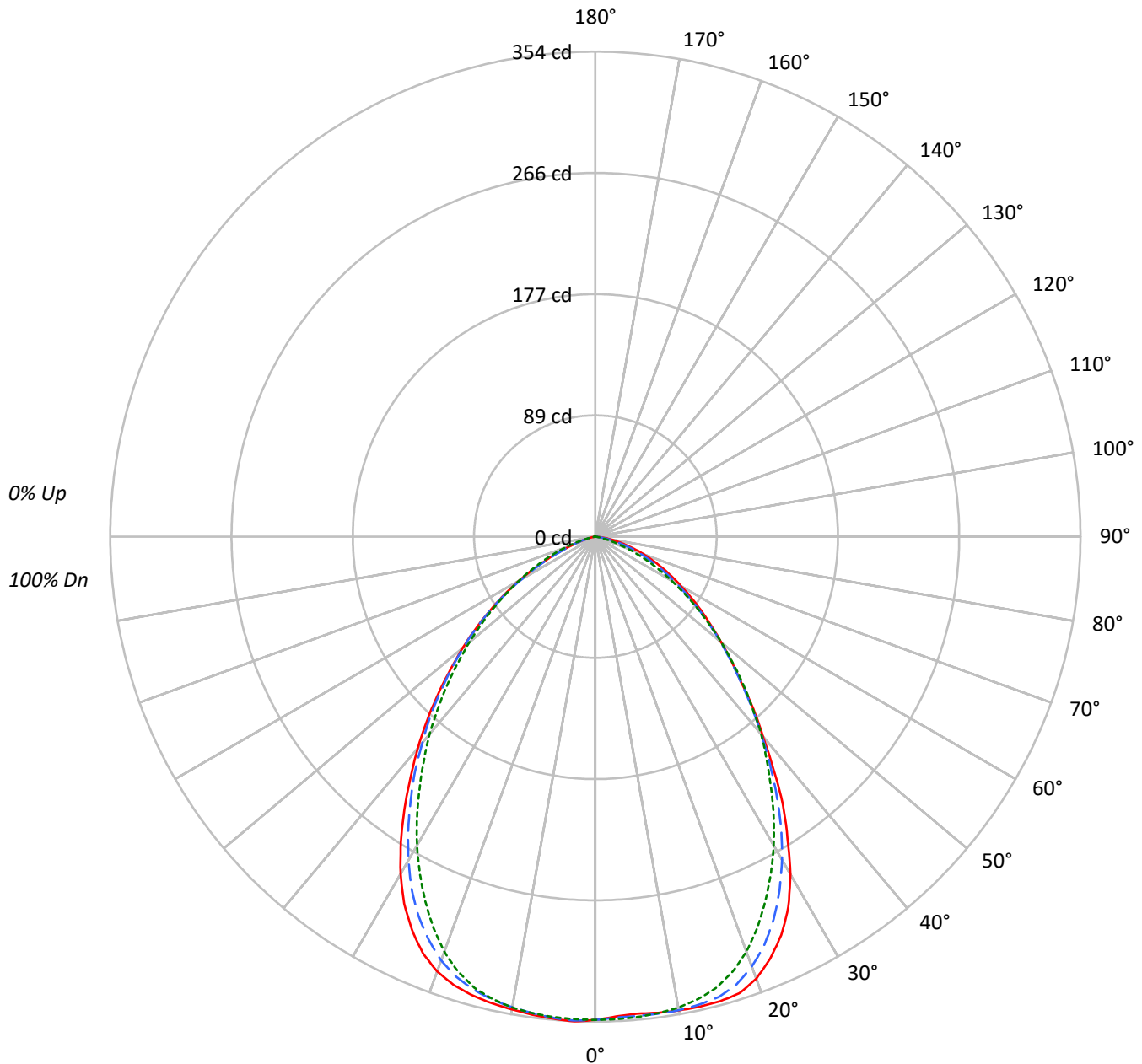
Lumens per Lamp: N/A
Luminaire Lumens: 676.4 lumens
Efficiency: N/A
Efficacy: 63.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	43343	43343	43343
5°	43101	43410	43558
10°	43812	43550	43724
15°	44668	43371	44096
20°	44895	42150	44150
25°	43513	39799	42930
30°	40387	36926	40316
35°	35769	33505	36444
40°	30503	30182	32315
45°	26183	26496	28146
50°	22859	22916	24139
55°	20198	19341	20027
60°	17715	15799	15725
65°	15669	12238	10901
70°	13362	8441	6466
75°	10822	4557	2943
80°	7429	1061	707
85°	2114	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.5	5.0
10°-20°	97.1	14.4
20°-30°	140.3	20.7
30°-40°	145.0	21.4
40°-50°	119.8	17.7
50°-60°	82.7	12.2
60°-70°	43.3	6.4
70°-80°	13.6	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°	270.9	40.0
0°-40°	415.9	61.5
0°-60°	618.4	91.4
0°-90°	676.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	676.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	353	353	353	353	353	
5°	350	351	352	353	353	33
15°	351	348	341	342	347	99
25°	321	308	294	305	317	147
35°	238	231	223	235	243	148
45°	151	150	152	160	162	118
55°	94	91	90	93	94	85
65°	54	49	42	35	38	53
75°	23	18	10	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°	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8
2.5°	350.6	350.7	350.7	350.9	350.9	350.9	351.0	351.0	351.2	351.3	351.4
5°	349.5	349.5	349.8	349.9	350.2	350.3	350.6	350.7	350.9	351.0	351.2
7.5°	350.6	350.6	350.7	350.8	350.8	350.9	350.9	351.0	351.2	351.3	351.3
10°	351.2	351.2	351.2	351.2	351.3	351.3	351.3	351.2	351.2	351.2	351.0
12.5°	351.4	351.4	351.3	351.2	351.3	351.2	351.2	350.8	350.6	350.3	349.9
15°	351.2	351.2	351.0	350.9	350.8	350.6	350.5	349.8	349.2	348.5	347.9
17.5°	349.5	349.2	348.9	348.8	348.2	347.8	347.5	346.4	345.3	344.1	342.7
20°	343.4	343.1	342.8	342.1	341.4	341.0	340.2	338.4	337.4	335.5	333.9
22.5°	333.4	333.2	333.4	332.1	330.9	330.0	329.6	328.0	326.4	323.9	322.4
25°	321.0	320.2	320.2	318.4	317.8	317.2	316.6	314.8	312.4	310.2	308.1
27.5°	304.9	303.8	303.2	303.0	301.4	300.3	299.3	298.0	296.0	294.0	291.0
30°	284.7	284.6	283.9	282.8	281.6	281.1	279.9	277.7	275.9	274.4	272.5
32.5°	261.0	260.9	260.9	260.9	260.0	260.0	258.4	257.1	255.7	253.5	252.3
35°	238.5	238.4	238.5	236.5	236.0	235.6	235.4	234.7	232.7	231.6	230.6
37.5°	213.1	213.5	213.2	212.7	213.3	212.1	213.1	211.4	210.6	210.3	209.1
40°	190.2	191.1	190.2	190.3	190.9	189.7	189.7	189.5	188.9	188.6	188.4
42.5°	170.6	169.2	170.0	169.3	170.0	169.6	169.0	169.3	169.5	169.0	168.9
45°	150.7	151.1	151.4	151.0	151.0	150.5	151.7	151.0	151.0	151.1	150.0
47.5°	134.7	134.3	134.6	134.3	134.5	134.3	134.5	134.6	134.3	134.3	133.6
50°	119.6	119.3	120.3	119.5	119.5	119.3	119.5	119.2	118.8	118.8	119.1
52.5°	106.5	106.0	105.8	106.5	105.6	105.6	105.7	105.4	105.0	104.7	104.0
55°	94.3	94.2	94.3	93.8	93.6	93.6	92.9	92.6	92.5	91.8	91.4
57.5°	82.9	82.5	82.7	82.5	82.1	81.9	81.4	81.4	80.8	80.3	79.6
60°	72.1	72.1	72.4	71.9	71.5	71.3	71.0	70.7	69.9	68.9	68.2
62.5°	62.5	62.6	62.5	62.0	61.7	61.4	61.1	60.4	59.6	59.1	58.2
65°	53.9	53.8	53.4	53.1	52.5	52.5	51.9	51.5	50.7	49.8	48.9
67.5°	45.3	45.0	45.0	45.0	44.1	43.9	43.6	42.9	42.1	41.1	40.3
70°	37.2	37.5	37.1	36.7	36.3	36.1	35.8	35.0	34.0	33.0	32.3
72.5°	29.7	29.9	29.6	29.4	28.6	28.3	28.2	27.6	26.4	25.8	24.7
75°	22.8	22.9	22.6	22.4	21.9	21.8	21.1	20.5	19.9	18.8	17.9
77.5°	16.5	16.2	16.2	15.7	15.1	15.1	15.0	14.2	13.2	12.5	11.7
80°	10.5	10.4	10.0	9.7	9.3	9.2	9.0	8.3	7.7	7.1	6.7
82.5°	5.3	5.1	5.0	4.9	4.7	4.4	4.6	4.0	3.7	3.2	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°	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8
2.5°	351.6	351.7	352.0	352.1	352.1	352.2	352.4	352.5	352.6	352.6	352.8
5°	351.3	351.6	351.6	351.7	351.7	351.7	352.0	352.0	352.0	352.0	352.1
7.5°	351.4	351.4	351.4	351.3	351.3	351.2	351.2	351.2	350.9	350.9	350.9
10°	350.8	350.7	350.6	350.3	350.2	350.0	349.8	349.5	349.2	349.1	348.9
12.5°	349.5	348.9	348.5	347.9	347.7	347.5	347.0	346.7	346.3	345.8	345.5
15°	346.9	346.1	345.1	344.1	343.8	343.5	342.7	341.8	341.3	341.0	340.3
17.5°	341.6	339.9	338.9	337.3	336.7	336.4	335.0	334.2	333.2	333.0	332.4
20°	332.1	330.7	328.8	327.3	326.4	325.7	324.5	323.5	322.4	322.4	321.7
22.5°	320.3	318.5	315.9	314.1	314.0	312.4	311.4	310.2	309.8	308.9	308.9
25°	305.6	303.9	301.1	299.6	298.8	298.4	296.6	295.0	294.3	293.6	294.2
27.5°	289.1	286.7	284.6	282.7	282.0	281.2	279.5	278.9	277.4	277.3	277.2
30°	270.3	267.8	265.7	264.9	263.6	262.8	261.7	260.9	260.3	260.3	260.0
32.5°	250.5	248.4	247.4	245.3	244.6	243.8	243.0	242.2	242.5	242.2	242.4
35°	229.2	228.7	226.7	225.5	225.5	225.3	224.0	223.5	223.2	223.4	224.0
37.5°	208.9	207.4	206.0	205.3	205.9	205.1	205.0	205.0	205.8	205.3	206.3
40°	187.4	187.2	186.7	187.0	187.1	186.1	186.5	186.6	187.1	188.2	188.3
42.5°	168.6	168.4	168.4	168.4	168.1	167.5	168.1	169.1	169.0	169.7	170.4
45°	150.3	150.0	150.6	150.2	151.1	151.4	151.0	151.2	152.0	152.5	153.6
47.5°	133.9	133.9	134.0	134.3	133.5	134.2	134.3	134.9	135.3	135.6	136.1
50°	118.5	118.5	118.2	118.2	118.2	118.6	118.1	118.7	118.8	119.9	120.6
52.5°	104.3	103.6	104.0	103.8	103.2	102.9	103.2	103.3	104.2	104.4	105.3
55°	90.7	90.7	89.7	89.4	89.9	89.7	89.6	89.6	89.9	90.3	91.0
57.5°	78.8	78.1	77.2	77.1	76.7	76.8	76.8	76.7	76.4	76.5	76.7
60°	67.5	67.0	65.8	65.8	65.7	65.6	64.9	64.7	64.2	64.3	63.7
62.5°	57.2	57.0	55.3	54.9	54.9	54.5	53.8	53.6	52.8	52.8	52.2
65°	47.9	47.2	46.3	45.4	45.4	44.8	44.3	43.2	42.5	42.1	41.4
67.5°	39.6	38.2	37.4	36.5	36.0	35.9	35.0	34.2	33.2	32.4	31.3
70°	31.3	30.3	29.4	28.6	28.1	27.6	26.7	25.4	24.6	23.5	22.6
72.5°	23.6	22.8	22.1	21.0	20.3	19.9	18.9	17.9	16.5	15.8	14.6
75°	16.9	16.1	15.0	14.0	13.6	13.2	12.2	11.4	10.5	9.6	8.5
77.5°	11.0	10.0	9.2	8.1	7.9	7.7	6.7	5.8	5.1	4.7	4.0
80°	5.8	5.3	4.7	4.0	3.7	3.3	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°	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8
2.5°	352.8	353.0	353.1	353.1	353.2	353.4	353.4	353.5	353.6	353.8	353.8
5°	352.2	352.2	352.2	352.4	352.4	352.4	352.4	352.6	352.6	352.8	352.8
7.5°	350.8	350.8	350.8	350.8	350.7	350.8	350.7	350.7	350.9	351.0	351.2
10°	348.8	348.6	348.6	348.5	348.5	348.5	348.6	348.8	348.9	348.9	349.4
12.5°	345.3	345.2	345.2	345.1	345.1	345.2	345.3	345.6	346.3	346.5	347.0
15°	340.2	339.9	340.2	340.3	340.6	341.0	341.3	341.7	342.5	343.1	343.8
17.5°	332.4	332.5	332.7	333.0	333.4	333.8	335.0	336.0	337.0	338.0	339.1
20°	321.7	322.4	322.5	323.5	323.7	324.9	326.0	327.6	329.2	330.4	331.9
22.5°	309.1	309.5	310.0	311.1	311.8	313.4	314.8	316.7	318.2	319.9	322.0
25°	294.7	294.8	296.4	296.4	298.0	299.3	301.0	303.0	305.4	307.7	309.1
27.5°	278.2	278.9	280.0	280.6	281.8	283.9	285.3	287.8	290.2	292.1	293.8
30°	261.0	261.6	263.6	263.8	264.7	266.6	268.5	270.8	272.7	274.9	276.4
32.5°	242.8	244.3	245.6	246.4	246.7	249.5	250.5	252.2	254.2	256.4	258.0
35°	225.2	225.9	227.6	228.2	229.0	230.6	232.7	234.0	235.0	236.5	238.2
37.5°	206.6	208.5	208.9	210.6	210.8	212.2	213.3	214.9	216.3	217.5	217.8
40°	189.2	189.9	191.3	191.7	192.0	194.0	195.3	195.7	196.3	197.5	199.2
42.5°	171.6	172.2	173.8	173.4	174.7	175.6	176.3	177.8	178.5	178.8	178.8
45°	154.2	154.5	155.6	156.0	156.8	157.3	158.5	159.3	159.5	160.7	161.1
47.5°	137.7	137.9	138.7	139.7	139.4	140.1	141.4	141.8	141.9	142.7	143.1
50°	121.4	122.1	123.1	122.8	123.6	124.0	125.2	125.4	125.4	125.6	125.7
52.5°	106.1	106.7	106.9	107.2	107.5	108.2	108.8	108.5	109.0	109.6	109.2
55°	91.0	91.4	92.1	92.4	92.4	92.5	92.2	93.5	92.9	92.8	92.9
57.5°	77.2	76.7	76.5	77.2	77.5	77.4	77.0	77.5	77.5	77.2	76.8
60°	63.9	63.5	63.3	63.5	62.9	62.6	62.9	62.6	61.8	61.6	61.7
62.5°	51.7	51.3	50.2	50.2	49.9	49.8	48.8	48.9	48.3	47.5	47.8
65°	40.4	39.4	38.9	38.7	37.7	37.0	36.7	35.8	35.0	34.9	35.0
67.5°	30.3	29.2	28.2	27.9	27.3	26.7	25.7	24.9	25.2	25.0	25.6
70°	21.1	20.3	19.3	18.6	18.9	18.2	17.6	17.6	17.8	17.9	18.2
72.5°	14.0	12.9	12.6	12.2	11.9	11.4	11.7	11.7	11.5	11.7	11.4
75°	7.9	7.4	7.0	6.8	6.7	6.7	6.7	6.7	6.5	6.4	6.4
77.5°	3.6	3.3	3.2	3.1	3.1	3.1	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°	352.8	352.8	352.8	352.8	352.8	352.8	352.8	352.8
2.5°	353.9	354.1	354.1	354.1	354.2	354.2	354.2	354.2
5°	353.0	353.1	353.1	353.1	353.2	353.2	353.2	353.2
7.5°	351.3	351.4	351.4	351.6	351.6	351.7	351.7	352.0
10°	349.5	349.8	349.9	350.0	350.2	350.3	350.3	350.5
12.5°	347.5	347.8	347.9	348.2	348.5	348.6	348.8	348.9
15°	344.6	345.1	345.3	345.5	346.1	346.4	346.5	346.7
17.5°	339.9	341.1	341.4	341.7	342.3	342.8	343.1	343.2
20°	333.4	334.6	335.1	335.7	336.6	337.2	337.4	337.7
22.5°	324.1	325.4	326.2	327.0	327.6	328.4	329.5	329.0
25°	310.9	313.1	314.0	314.4	315.9	316.7	317.2	316.7
27.5°	296.0	297.3	298.1	299.1	300.1	300.9	301.1	302.0
30°	278.1	280.3	280.2	281.2	282.5	283.2	283.5	284.2
32.5°	259.6	260.6	261.4	261.3	261.8	263.3	262.7	263.9
35°	239.9	240.0	241.3	241.1	242.2	242.2	242.2	243.0
37.5°	218.8	220.3	219.6	221.3	220.7	221.1	221.1	221.3
40°	199.6	200.0	200.0	200.6	201.0	200.6	200.9	201.5
42.5°	179.6	180.2	180.3	180.0	180.5	181.7	180.7	181.5
45°	161.1	161.4	162.0	161.6	162.3	161.8	162.3	162.0
47.5°	143.6	143.5	143.4	144.3	143.5	143.6	144.1	143.2
50°	125.7	126.5	126.0	126.4	126.6	126.6	126.3	126.3
52.5°	109.9	109.7	109.2	109.7	109.5	109.6	109.9	109.6
55°	93.5	93.9	93.7	93.6	93.7	93.7	94.5	93.5
57.5°	77.2	77.0	77.4	78.3	77.4	78.1	78.4	78.5
60°	61.8	61.8	62.8	62.3	63.1	63.7	64.3	64.0
62.5°	47.2	47.8	48.1	48.2	49.0	49.5	49.5	49.3
65°	35.0	35.9	35.9	36.4	36.7	36.7	37.0	37.5
67.5°	25.8	25.8	26.0	26.1	26.0	26.0	26.3	26.4
70°	18.0	17.8	18.2	18.0	18.0	17.9	18.0	18.0
72.5°	11.4	11.4	11.5	11.4	11.1	11.3	11.3	11.5
75°	6.1	6.4	6.1	6.1	6.2	6.0	6.1	6.2
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)