

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: P856801

Luminaire Tested: **LX4C10D010 EX4C109727 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P856801
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: LX4C10D010 EX4C109727 4LBLWW*
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 97CRI LEDS
AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

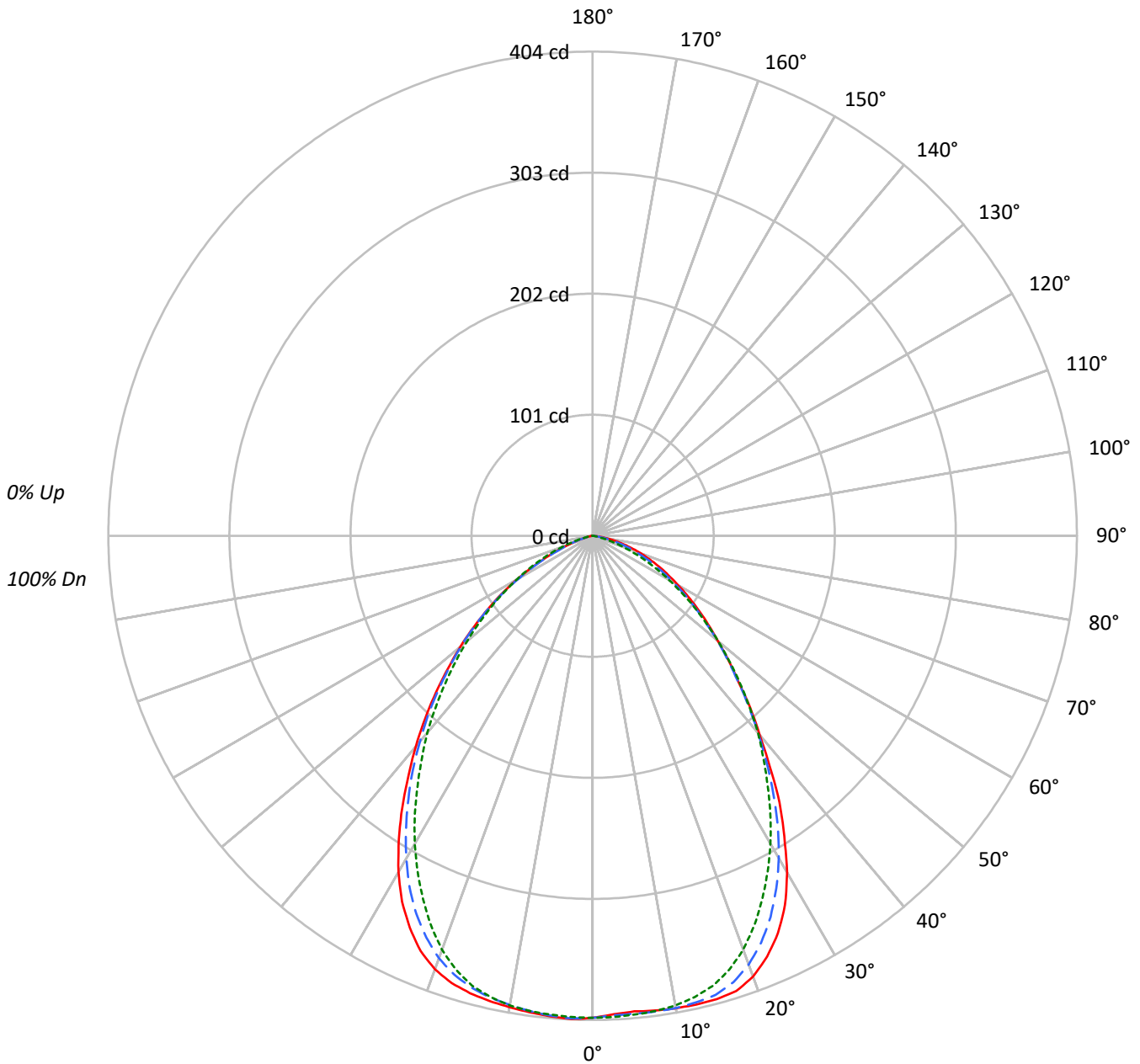
Lumens per Lamp: N/A
Luminaire Lumens: 771.0 lumens
Efficiency: N/A
Efficacy: 78.7 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
Input Voltage (V):
Input Current (A_{in}): 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									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
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°	49412	49412	49412
5°	49132	49465	49650
10°	49937	49638	49825
15°	50913	49425	50252
20°	51171	48033	50321
25°	49599	45356	48921
30°	46033	42090	45948
35°	40764	38184	41543
40°	34753	34384	36838
45°	29866	30196	32090
50°	26070	26127	27503
55°	23025	22061	22811
60°	20197	17986	17912
65°	17878	13953	12413
70°	15230	9591	7364
75°	12341	5174	3370
80°	8419	1273	849
85°	2537	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.2	5.0
10°-20°	110.6	14.4
20°-30°	159.9	20.7
30°-40°	165.3	21.4
40°-50°	136.6	17.7
50°-60°	94.2	12.2
60°-70°	49.3	6.4
70°-80°	15.5	2.0
80°-90°	1.3	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°	308.7	40.0
0°-40°	474.0	61.5
0°-60°	704.8	91.4
0°-90°	771.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	771.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	402	402	402	402	402	
5°	398	400	401	402	403	38
15°	400	397	389	390	395	113
25°	366	351	335	348	361	167
35°	272	263	255	268	277	169
45°	172	171	174	182	185	134
55°	108	104	103	106	106	97
65°	62	56	48	40	43	61
75°	26	20	11	7	7	28
85°	2	1	0	0	0	4
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°	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2
2.5°	399.6	399.7	399.7	400.0	400.0	400.0	400.2	400.2	400.3	400.5	400.6
5°	398.4	398.4	398.7	398.8	399.1	399.3	399.6	399.7	400.0	400.2	400.3
7.5°	399.6	399.6	399.7	399.9	399.9	400.0	400.0	400.2	400.3	400.5	400.5
10°	400.3	400.3	400.3	400.3	400.5	400.5	400.5	400.3	400.3	400.3	400.2
12.5°	400.6	400.6	400.5	400.3	400.5	400.3	400.3	399.9	399.6	399.3	398.8
15°	400.3	400.3	400.2	400.0	399.9	399.6	399.4	398.7	398.1	397.2	396.6
17.5°	398.4	398.1	397.8	397.5	396.9	396.4	396.1	394.8	393.7	392.2	390.5
20°	391.4	391.1	390.7	389.9	389.2	388.6	387.7	385.7	384.6	382.4	380.7
22.5°	380.1	379.8	380.0	378.6	377.1	376.2	375.6	373.9	372.1	369.2	367.4
25°	365.9	365.0	365.0	362.9	362.1	361.5	360.8	358.8	356.1	353.5	351.1
27.5°	347.5	346.3	345.7	345.4	343.6	342.2	341.1	339.6	337.4	335.1	331.8
30°	324.5	324.4	323.6	322.3	320.9	320.3	319.1	316.5	314.4	312.8	310.6
32.5°	297.5	297.3	297.3	297.3	296.4	296.3	294.5	293.1	291.5	288.9	287.5
35°	271.8	271.7	271.8	269.6	269.0	268.5	268.4	267.4	265.2	264.0	262.8
37.5°	242.8	243.3	243.0	242.4	243.1	241.8	242.8	240.9	240.0	239.7	238.3
40°	216.7	217.9	216.7	216.9	217.6	216.3	216.3	216.0	215.3	215.0	214.7
42.5°	194.4	192.8	193.8	193.0	193.8	193.3	192.5	193.0	193.1	192.5	192.4
45°	171.9	172.2	172.5	172.0	172.0	171.6	172.8	172.0	172.0	172.2	171.1
47.5°	153.6	153.1	153.4	153.1	153.3	153.0	153.3	153.4	153.1	153.1	152.2
50°	136.4	136.1	137.1	136.2	136.2	136.1	136.2	135.9	135.5	135.5	135.8
52.5°	121.4	120.8	120.7	121.4	120.4	120.4	120.5	120.2	119.6	119.3	118.5
55°	107.5	107.4	107.5	106.9	106.6	106.6	105.9	105.6	105.4	104.7	104.2
57.5°	94.5	94.1	94.2	94.1	93.5	93.3	92.7	92.7	92.1	91.5	90.8
60°	82.2	82.2	82.6	82.0	81.5	81.2	80.9	80.6	79.6	78.5	77.6
62.5°	71.1	71.3	71.1	70.7	70.4	70.1	69.8	68.9	68.0	67.4	66.3
65°	61.5	61.3	60.9	60.6	59.8	59.8	59.2	58.7	57.7	56.8	55.7
67.5°	51.5	51.2	51.2	51.2	50.3	50.1	49.8	48.9	48.0	46.8	45.9
70°	42.4	42.7	42.3	41.8	41.4	41.2	40.8	39.9	38.8	37.6	36.8
72.5°	33.8	34.1	33.7	33.5	32.6	32.3	32.2	31.4	30.2	29.4	28.2
75°	26.0	26.1	25.8	25.5	24.9	24.8	24.0	23.4	22.7	21.4	20.4
77.5°	18.7	18.4	18.4	17.8	17.2	17.2	17.1	16.2	15.1	14.2	13.3
80°	11.9	11.8	11.3	11.0	10.6	10.4	10.3	9.5	8.8	8.2	7.6
82.5°	6.0	5.9	5.7	5.6	5.3	5.0	5.1	4.5	4.2	3.6	3.2
85°	1.8	2.0	2.0	1.8	1.7	1.7	1.7	1.5	1.2	1.1	0.9
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°	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2
2.5°	400.8	400.9	401.1	401.2	401.2	401.4	401.5	401.7	401.9	401.9	402.0
5°	400.5	400.8	400.8	400.9	400.9	400.9	401.1	401.1	401.1	401.1	401.2
7.5°	400.6	400.6	400.6	400.5	400.5	400.3	400.3	400.3	400.0	400.0	400.0
10°	399.9	399.7	399.6	399.3	399.1	399.0	398.7	398.4	398.1	397.9	397.6
12.5°	398.4	397.8	397.2	396.6	396.3	396.1	395.5	395.1	394.6	394.1	393.8
15°	395.4	394.5	393.4	392.2	391.9	391.6	390.5	389.6	389.0	388.6	387.8
17.5°	389.3	387.5	386.3	384.5	383.7	383.4	381.8	380.9	379.8	379.5	378.9
20°	378.6	376.9	374.7	373.0	372.1	371.2	369.8	368.6	367.4	367.4	366.7
22.5°	365.2	363.0	360.2	358.1	357.9	356.1	354.9	353.5	353.1	352.2	352.2
25°	348.2	346.4	343.3	341.4	340.5	340.1	338.1	336.3	335.4	334.6	335.3
27.5°	329.5	326.8	324.4	322.1	321.4	320.5	318.6	317.9	316.2	316.1	315.9
30°	308.1	305.4	302.9	301.9	300.4	299.6	298.3	297.3	296.7	296.7	296.4
32.5°	285.6	283.2	281.9	279.7	278.9	277.9	277.0	276.1	276.4	276.1	276.2
35°	261.3	260.7	258.4	257.0	257.0	256.9	255.4	254.8	254.5	254.6	255.4
37.5°	238.2	236.3	234.8	233.9	234.7	233.8	233.6	233.6	234.5	233.9	235.1
40°	213.5	213.4	212.8	213.1	213.2	212.2	212.5	212.6	213.2	214.4	214.6
42.5°	192.1	191.9	191.9	191.9	191.6	191.0	191.6	192.7	192.5	193.4	194.2
45°	171.4	171.1	171.7	171.3	172.2	172.5	172.0	172.3	173.2	173.8	175.0
47.5°	152.5	152.5	152.7	153.0	152.1	152.8	153.1	153.7	154.2	154.5	155.1
50°	135.0	135.0	134.7	134.7	134.7	135.2	134.6	135.3	135.5	136.7	137.4
52.5°	118.8	118.1	118.5	118.2	117.6	117.3	117.6	117.8	118.7	119.0	119.9
55°	103.4	103.4	102.2	101.9	102.4	102.2	102.1	102.1	102.5	103.0	103.7
57.5°	89.9	88.9	88.0	87.9	87.4	87.6	87.6	87.4	87.1	87.3	87.4
60°	77.0	76.4	75.1	75.1	74.9	74.8	74.0	73.8	73.1	73.2	72.6
62.5°	65.2	64.9	63.1	62.5	62.5	62.1	61.3	61.2	60.1	60.1	59.5
65°	54.7	53.8	52.7	51.6	51.6	51.0	50.6	49.2	48.5	48.0	47.1
67.5°	45.0	43.6	42.6	41.7	41.1	40.9	39.9	39.0	37.8	37.0	35.6
70°	35.6	34.6	33.5	32.6	32.0	31.4	30.4	29.0	28.1	26.7	25.8
72.5°	26.9	26.0	25.1	23.9	23.1	22.7	21.6	20.4	18.9	18.0	16.8
75°	19.3	18.3	17.1	16.0	15.6	15.1	13.9	13.0	11.9	10.9	9.7
77.5°	12.5	11.3	10.4	9.2	9.1	8.8	7.6	6.6	5.9	5.3	4.5
80°	6.6	6.0	5.3	4.5	4.2	3.8	3.2	2.7	2.3	1.8	1.5
82.5°	2.9	2.4	2.0	1.7	1.5	1.4	1.1	0.9	0.8	0.8	0.6
85°	0.8	0.6	0.6	0.5	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.2	0.2	0.2	0.0	0.2	0.2	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°	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2
2.5°	402.2	402.3	402.5	402.5	402.6	402.8	402.8	402.9	403.1	403.2	403.2
5°	401.4	401.4	401.4	401.5	401.5	401.5	401.5	401.9	401.9	402.0	402.2
7.5°	399.9	399.9	399.9	399.9	399.7	399.9	399.7	399.7	400.0	400.2	400.3
10°	397.5	397.3	397.3	397.2	397.2	397.2	397.3	397.5	397.6	397.8	398.2
12.5°	393.7	393.5	393.5	393.4	393.4	393.5	393.7	394.0	394.6	394.9	395.5
15°	387.7	387.5	387.7	387.8	388.1	388.6	389.0	389.5	390.4	391.1	391.9
17.5°	378.9	379.0	379.2	379.5	380.0	380.6	381.8	383.0	384.0	385.2	386.4
20°	366.8	367.4	367.6	368.6	368.9	370.3	371.6	373.5	375.1	376.6	378.3
22.5°	352.3	352.8	353.4	354.6	355.3	357.1	358.8	360.9	362.7	364.7	367.1
25°	335.9	336.0	337.8	337.8	339.6	341.1	343.1	345.4	348.1	350.7	352.3
27.5°	317.1	317.9	319.2	319.8	321.2	323.6	325.3	328.0	330.7	333.0	334.8
30°	297.5	298.1	300.4	300.7	301.7	303.8	306.1	308.7	310.8	313.4	315.0
32.5°	276.8	278.5	279.8	280.9	281.2	284.4	285.6	287.4	289.8	292.4	294.0
35°	256.7	257.5	259.4	260.0	261.0	262.8	265.2	266.7	267.9	269.6	271.5
37.5°	235.4	237.7	238.2	240.0	240.3	241.9	243.1	244.9	246.5	248.0	248.3
40°	215.6	216.4	218.1	218.5	218.8	221.1	222.6	223.0	223.8	225.2	227.0
42.5°	195.6	196.3	198.1	197.7	199.0	200.1	200.8	202.7	203.4	203.9	203.9
45°	175.8	176.1	177.3	177.9	178.7	179.3	180.6	181.5	181.8	183.2	183.6
47.5°	156.9	157.2	158.1	159.2	158.9	159.6	161.1	161.6	161.7	162.6	163.1
50°	138.3	139.1	140.3	140.0	140.9	141.3	142.7	143.0	143.0	143.2	143.3
52.5°	121.0	121.6	121.9	122.2	122.6	123.4	124.0	123.7	124.3	124.9	124.4
55°	103.7	104.2	105.0	105.3	105.3	105.4	105.1	106.5	105.9	105.7	105.9
57.5°	88.0	87.4	87.3	88.0	88.3	88.2	87.7	88.3	88.3	88.0	87.6
60°	72.8	72.3	72.2	72.3	71.7	71.3	71.6	71.3	70.5	70.2	70.4
62.5°	58.9	58.4	57.2	57.2	56.9	56.8	55.6	55.7	55.1	54.2	54.5
65°	46.1	44.9	44.2	44.1	43.0	42.1	41.8	40.8	39.9	39.7	39.9
67.5°	34.6	33.2	32.2	31.7	31.1	30.4	29.3	28.4	28.7	28.5	29.1
70°	24.0	23.1	22.0	21.3	21.6	20.7	20.1	20.1	20.2	20.4	20.7
72.5°	16.0	14.8	14.3	13.9	13.6	13.0	13.3	13.3	13.1	13.3	13.0
75°	9.1	8.5	8.0	7.9	7.6	7.6	7.6	7.6	7.4	7.2	7.2
77.5°	4.1	3.8	3.6	3.5	3.5	3.5	3.3	3.2	3.2	3.2	3.0
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
82.5°	0.6	0.6	0.8	0.8	0.8	0.6	0.8	0.8	0.6	0.6	0.8
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°	0.2	0.2	0.2	0.0	0.2	0.2	0.2	0.2	0.0	0.2	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°	402.2	402.2	402.2	402.2	402.2	402.2	402.2	402.2
2.5°	403.4	403.5	403.5	403.5	403.7	403.7	403.7	403.7
5°	402.3	402.5	402.5	402.5	402.6	402.6	402.6	402.6
7.5°	400.5	400.6	400.6	400.8	400.8	400.9	400.9	401.1
10°	398.4	398.7	398.8	399.0	399.1	399.3	399.3	399.4
12.5°	396.1	396.4	396.6	396.9	397.2	397.3	397.5	397.6
15°	392.8	393.4	393.7	393.8	394.5	394.8	394.9	395.1
17.5°	387.5	388.7	389.2	389.5	390.1	390.7	391.1	391.3
20°	380.0	381.3	381.9	382.7	383.6	384.3	384.6	384.9
22.5°	369.4	370.9	371.8	372.7	373.5	374.2	375.4	375.0
25°	354.3	356.8	357.9	358.4	360.0	360.9	361.5	360.9
27.5°	337.4	338.9	339.8	340.8	342.0	343.0	343.3	344.2
30°	317.0	319.5	319.4	320.5	322.0	322.9	323.2	323.9
32.5°	295.8	297.0	298.0	297.8	298.4	300.1	299.5	300.8
35°	273.3	273.5	275.0	274.8	276.1	276.1	276.1	277.0
37.5°	249.3	251.1	250.4	252.2	251.6	252.0	252.0	252.3
40°	227.4	228.0	228.0	228.6	229.1	228.6	228.9	229.7
42.5°	204.8	205.4	205.5	205.2	205.7	207.0	206.0	206.9
45°	183.6	184.1	184.7	184.2	185.0	184.5	185.0	184.7
47.5°	163.7	163.5	163.4	164.6	163.5	163.7	164.3	163.2
50°	143.3	144.2	143.6	144.1	144.4	144.4	143.9	143.9
52.5°	125.2	125.0	124.6	125.0	124.7	124.9	125.2	124.9
55°	106.5	107.1	106.8	106.6	106.8	106.8	107.7	106.5
57.5°	88.0	87.7	88.2	89.2	88.2	88.9	89.4	89.6
60°	70.5	70.5	71.4	71.0	71.9	72.6	73.2	72.9
62.5°	53.8	54.5	54.8	55.0	55.9	56.5	56.5	56.3
65°	39.9	40.9	40.9	41.5	41.8	41.8	42.1	42.7
67.5°	29.4	29.4	29.6	29.9	29.7	29.7	30.1	30.2
70°	20.5	20.2	20.7	20.5	20.5	20.4	20.5	20.5
72.5°	13.0	13.0	13.1	13.0	12.7	12.8	12.8	13.1
75°	6.9	7.2	6.9	6.9	7.1	6.8	6.9	7.1
77.5°	2.9	2.9	2.9	2.9	2.9	2.7	2.7	2.7
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.2	1.2
82.5°	0.6	0.8	0.6	0.8	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	0.2	0.0	0.2	0.0	0.0	0.0	0.2
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)