

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: P856696

Luminaire Tested: **LX4C10D010 EX4C109027 4LBLWWH**

Issue Date: 2/14/2022

Test Information

Test Method: LM-79-08
Report Number: P856696
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-2)
Test Lab: INNOVATION CENTER
Issue Date: 2/14/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX4C10D010 EX4C109027 4LBLWWH
Description: 4 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS
AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

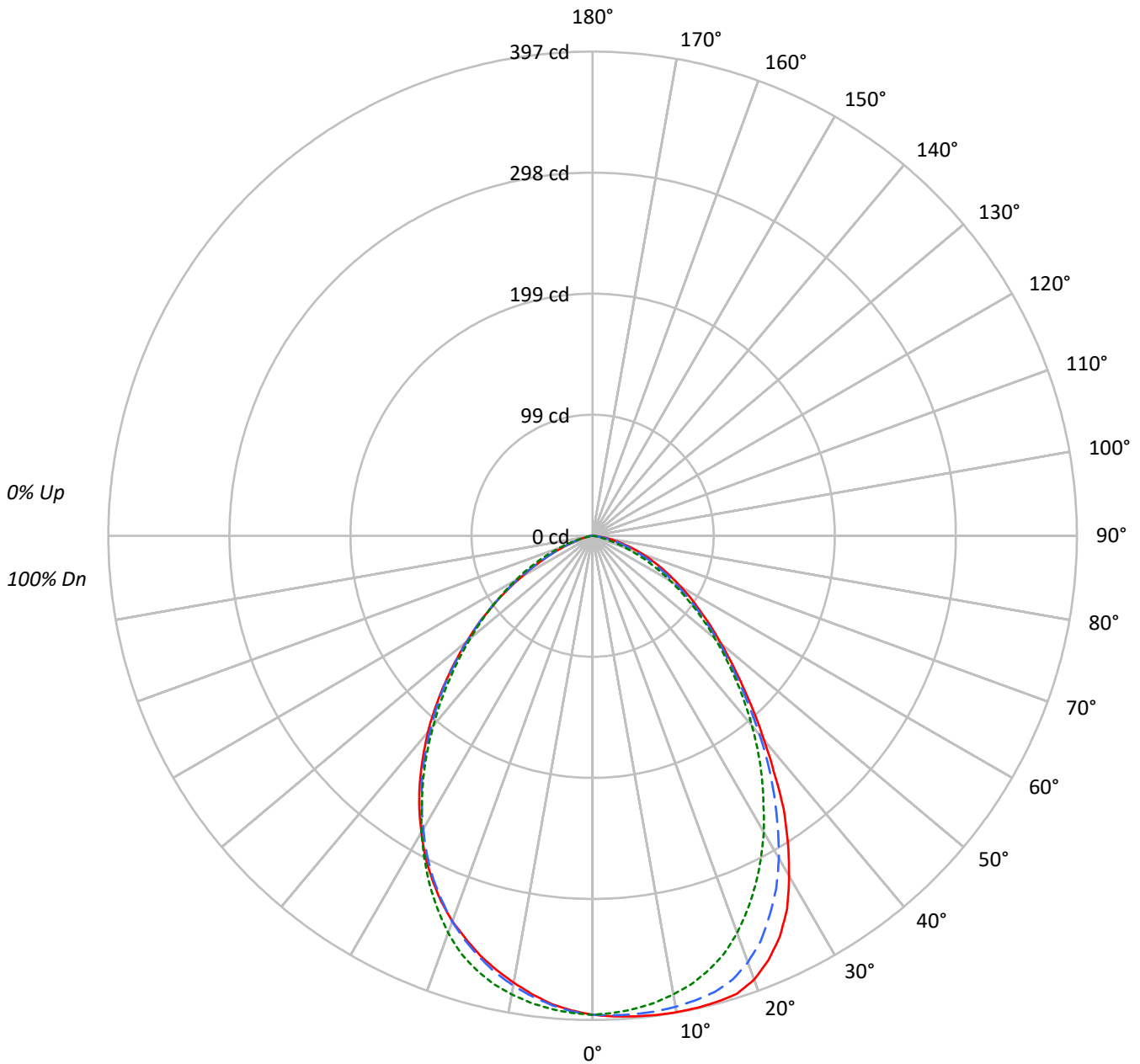
Lumens per Lamp: N/A
Luminaire Lumens: 740.0 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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					20					
RC	80					70					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	108	105	102	99	101	98	96	97	95	93	94	92	90	88								
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77								
3	95	86	79	74	93	85	78	73	82	76	72	79	75	71	77	73	70	68								
4	88	78	70	64	86	77	69	64	74	68	63	72	67	62	70	65	62	60								
5	82	71	63	57	80	69	62	57	67	61	56	66	60	55	64	59	55	53								
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47								
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	44	43								
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	40	39								
9	62	50	43	38	61	50	42	37	48	42	37	47	41	37	47	41	37	35								
10	59	47	39	34	58	46	39	34	45	39	34	44	38	34	43	38	34	32								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	48245	48245	48245
5°	48774	48034	47516
10°	49488	47629	46419
15°	50303	46869	45317
20°	50622	45275	43967
25°	49179	42821	42171
30°	45693	39806	39834
35°	40899	36279	37059
40°	35026	32524	33711
45°	30144	28685	29762
50°	26203	24961	25726
55°	23068	21483	21290
60°	20517	17912	16512
65°	17994	14360	11948
70°	15446	10129	8082
75°	12531	5886	4747
80°	8985	2547	2335
85°	3383	1128	1128



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.0	5.0
10°-20°	104.8	14.2
20°-30°	149.6	20.2
30°-40°	156.5	21.1
40°-50°	131.1	17.7
50°-60°	91.8	12.4
60°-70°	50.0	6.8
70°-80°	17.3	2.3
80°-90°	2.0	0.3
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°	291.3	39.4
0°-40°	447.8	60.5
0°-60°	670.7	90.6
0°-90°	740.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	740.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	393	393	393	393	393	
5°	396	394	390	386	385	38
15°	396	387	368	358	356	112
25°	363	343	316	310	311	166
35°	273	259	242	244	247	169
45°	174	170	165	170	171	135
55°	108	104	100	100	99	97
65°	62	56	49	42	41	62
75°	26	21	12	10	10	28
85°	2	1	1	1	1	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°	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7
2.5°	394.5	394.0	394.2	394.2	394.2	394.0	394.2	394.0	394.0	393.9	393.6
5°	395.5	395.2	395.2	395.2	395.1	394.9	394.9	394.8	394.5	394.3	393.7
7.5°	396.3	396.0	396.0	395.8	395.7	395.5	395.4	394.9	394.5	394.2	393.4
10°	396.7	396.3	396.3	396.0	395.7	395.5	395.2	394.6	394.0	393.3	392.2
12.5°	396.4	396.0	395.8	395.5	394.9	394.6	394.3	393.6	392.5	391.5	390.1
15°	395.5	395.2	394.9	394.5	393.7	393.3	393.0	391.8	390.4	388.9	387.2
17.5°	393.7	393.3	392.7	392.1	391.0	390.5	389.8	388.3	386.3	384.2	381.6
20°	387.2	386.9	386.3	385.3	383.6	383.0	381.9	380.0	377.4	374.8	372.1
22.5°	376.5	376.0	375.1	374.2	372.7	371.7	370.8	368.0	365.2	362.5	359.9
25°	362.8	362.3	361.1	359.9	358.4	356.6	355.7	353.5	350.7	347.2	343.4
27.5°	345.1	343.6	343.1	341.8	339.5	338.9	337.5	334.8	332.1	329.1	325.9
30°	322.1	322.1	321.2	320.6	318.5	317.9	316.4	313.5	312.0	307.8	305.4
32.5°	297.8	297.5	296.8	296.3	295.1	294.0	292.5	291.0	287.7	285.6	282.3
35°	272.7	270.9	271.2	270.3	269.6	268.4	268.2	266.6	263.5	262.3	259.3
37.5°	244.2	243.5	244.5	243.1	242.4	242.5	241.3	240.3	239.1	237.0	236.4
40°	218.4	219.0	218.8	217.6	218.2	217.5	216.3	215.2	214.6	213.2	212.8
42.5°	195.3	194.4	194.1	194.1	194.2	194.2	193.6	192.9	192.9	191.5	190.1
45°	173.5	173.5	173.2	174.1	172.8	172.8	172.3	172.2	171.6	171.3	169.6
47.5°	154.8	154.6	154.5	154.3	154.2	154.2	153.3	152.5	152.4	151.5	150.6
50°	137.1	138.0	137.7	137.0	136.7	136.8	136.2	135.8	135.6	134.1	134.3
52.5°	122.3	122.2	122.5	122.0	121.3	121.4	120.8	120.2	119.6	118.9	118.3
55°	107.7	108.4	108.1	107.7	107.5	107.2	106.8	106.0	105.9	104.2	104.1
57.5°	95.4	95.3	95.0	94.2	94.1	93.6	93.6	93.0	92.1	91.2	90.5
60°	83.5	83.5	83.1	82.9	82.3	82.2	82.0	81.4	80.3	79.6	78.4
62.5°	72.0	72.3	72.0	71.6	71.1	70.5	70.2	69.8	68.9	68.1	67.1
65°	61.9	61.8	61.6	61.0	60.9	60.3	60.1	59.2	58.3	57.7	56.5
67.5°	52.3	51.8	51.8	51.5	51.2	50.7	50.4	49.5	48.5	47.9	46.7
70°	43.0	42.7	42.7	42.7	42.0	41.5	41.4	40.9	39.4	38.8	37.6
72.5°	34.6	34.4	34.3	33.8	33.4	33.4	32.8	31.9	31.1	30.4	29.4
75°	26.4	26.7	26.4	25.8	25.7	25.4	24.9	24.2	23.4	22.5	21.4
77.5°	19.3	19.0	18.7	18.7	18.4	17.8	17.7	17.1	16.2	15.6	14.5
80°	12.7	12.5	12.2	11.9	11.8	11.6	11.5	10.9	10.0	9.5	8.6
82.5°	6.9	6.8	6.8	6.6	6.2	6.2	6.0	5.4	5.0	4.7	4.2
85°	2.4	2.4	2.4	2.3	2.3	2.3	2.1	2.0	1.8	1.7	1.4
87.5°	0.3	0.2	0.3	0.2	0.3	0.2	0.2	0.2	0.2	0.2	0.2
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°	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7
2.5°	393.3	393.0	392.8	392.7	392.5	392.4	392.2	391.9	391.8	391.6	391.3
5°	393.3	392.7	392.4	391.9	391.6	391.3	390.8	390.4	389.9	389.5	389.0
7.5°	392.7	391.8	391.2	390.2	389.9	389.5	388.6	388.0	387.2	386.3	385.3
10°	391.2	390.1	388.9	387.7	387.2	386.5	385.3	384.2	383.0	381.8	380.7
12.5°	388.7	387.1	385.6	383.9	383.0	382.2	380.6	379.1	377.6	376.2	374.4
15°	385.1	383.1	381.2	378.9	377.9	377.0	374.5	372.7	370.3	368.5	366.7
17.5°	379.2	376.2	373.8	370.9	369.4	368.3	366.2	363.4	361.1	359.1	357.0
20°	369.1	366.2	362.9	359.7	358.1	356.7	353.7	350.7	348.4	346.3	344.0
22.5°	355.8	352.2	349.8	345.8	344.5	342.8	339.2	336.5	333.9	331.8	329.7
25°	339.7	336.5	333.2	329.5	327.9	325.9	322.9	320.0	318.4	315.9	313.4
27.5°	321.1	318.5	314.4	311.3	309.6	308.1	305.2	302.7	300.2	298.6	296.2
30°	301.4	298.4	294.8	291.5	290.6	288.8	286.2	284.2	281.7	280.6	279.5
32.5°	279.8	276.4	273.7	271.5	269.7	268.2	266.9	263.7	263.2	260.5	260.2
35°	256.3	254.8	252.2	250.4	248.9	247.8	245.6	244.1	242.4	241.9	240.9
37.5°	234.1	232.3	229.9	228.2	227.1	227.0	225.3	224.4	223.2	222.6	221.4
40°	210.8	210.1	208.0	207.7	206.0	205.8	204.9	203.9	202.8	202.8	203.0
42.5°	189.4	188.5	187.6	186.5	185.6	185.6	185.2	184.9	184.6	184.1	184.9
45°	169.3	168.1	167.5	166.4	166.9	166.0	165.7	165.7	165.2	165.1	166.1
47.5°	150.6	149.2	148.6	148.3	148.3	148.5	147.1	147.6	147.4	147.7	148.2
50°	133.5	132.3	131.4	131.4	131.5	130.9	130.3	130.8	130.3	130.6	131.7
52.5°	117.6	116.4	116.0	116.0	115.1	114.9	115.2	114.6	114.8	114.9	115.5
55°	103.0	102.2	101.5	100.7	100.9	100.6	100.0	99.8	100.1	100.3	101.0
57.5°	89.9	88.8	87.7	87.4	87.1	87.1	86.4	86.2	86.5	85.8	85.8
60°	77.3	76.7	75.4	74.9	74.9	74.2	73.5	73.9	73.1	72.9	73.1
62.5°	65.7	65.2	64.3	63.4	63.1	62.8	62.1	61.8	61.5	60.9	60.0
65°	55.6	54.5	53.5	52.9	52.4	51.7	51.2	50.6	49.7	49.4	48.5
67.5°	45.5	44.4	43.3	42.9	42.4	42.0	41.2	40.5	39.4	38.2	37.2
70°	36.5	35.2	34.6	33.4	33.1	32.5	31.4	30.7	29.6	28.2	27.2
72.5°	27.9	27.0	26.1	25.1	24.3	23.9	23.0	21.7	20.5	19.8	18.7
75°	20.1	19.6	18.4	17.2	16.9	16.3	15.3	14.5	13.6	12.4	11.5
77.5°	13.6	12.7	11.9	10.9	10.6	10.0	9.4	8.6	8.0	7.2	6.6
80°	8.0	7.2	6.8	6.0	5.7	5.4	5.0	4.4	3.9	3.6	3.5
82.5°	3.9	3.3	3.2	2.7	2.6	2.4	2.1	2.0	1.7	1.7	1.7
85°	1.4	1.1	1.1	0.9	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2
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°	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7
2.5°	391.2	391.0	390.8	390.7	390.7	390.5	390.5	390.4	390.4	390.2	390.2
5°	388.4	388.0	387.7	387.4	387.4	386.9	386.6	386.3	386.2	386.2	385.9
7.5°	384.7	384.1	383.4	383.0	382.8	382.1	381.5	381.5	380.9	380.6	380.3
10°	379.7	378.6	377.7	377.3	376.7	376.2	375.4	375.0	374.5	373.8	373.6
12.5°	372.9	372.1	370.8	370.2	369.9	369.0	367.7	367.1	367.0	366.4	365.9
15°	365.2	363.5	362.3	361.6	361.6	360.0	359.4	358.5	357.9	357.5	357.3
17.5°	355.2	353.5	352.3	351.3	351.0	349.8	348.9	348.6	347.8	348.1	347.4
20°	342.4	341.0	340.1	338.7	338.7	338.0	337.7	336.9	336.6	336.3	336.6
22.5°	328.6	327.0	325.5	325.3	325.3	324.2	324.1	323.9	323.3	323.8	323.6
25°	312.5	311.3	310.4	310.2	310.2	309.6	309.0	309.3	309.7	309.6	310.1
27.5°	295.7	294.5	294.2	294.0	293.7	293.6	293.9	293.9	294.3	294.9	295.6
30°	277.6	277.3	276.8	276.7	276.4	277.1	277.4	277.9	277.7	278.6	279.2
32.5°	259.5	258.9	258.7	259.0	259.5	259.3	260.2	260.5	260.8	261.9	262.3
35°	241.2	241.0	240.7	240.7	240.9	242.1	242.1	243.1	243.8	244.1	245.3
37.5°	221.6	222.2	222.5	222.9	223.1	223.5	223.8	224.9	225.5	226.1	226.7
40°	203.6	203.3	204.6	203.7	204.0	205.4	206.0	205.8	206.8	207.7	208.3
42.5°	184.4	184.9	185.2	185.5	186.2	186.4	187.1	188.2	188.5	189.5	189.8
45°	165.8	166.0	166.6	167.2	167.6	168.8	169.1	169.6	170.5	170.5	171.0
47.5°	148.3	148.9	148.9	149.8	150.6	150.4	151.5	151.8	151.6	152.4	152.7
50°	131.5	132.4	132.3	132.9	133.2	133.4	134.3	134.6	134.0	134.7	134.9
52.5°	115.5	116.0	116.6	116.7	116.4	117.2	116.9	117.5	117.3	117.9	117.3
55°	100.9	100.7	100.7	101.0	100.7	101.0	101.3	100.7	100.3	100.9	100.7
57.5°	86.2	86.2	85.9	86.4	85.9	85.5	85.3	84.9	84.4	84.4	84.3
60°	72.5	72.2	71.6	71.4	71.4	70.7	70.4	69.8	69.8	69.2	68.6
62.5°	59.7	58.9	58.4	58.4	58.1	57.4	56.0	55.1	54.8	53.9	53.8
65°	47.6	46.8	46.4	45.5	44.7	44.4	43.0	42.0	41.5	40.6	40.8
67.5°	36.5	35.3	34.0	33.4	32.9	31.9	31.4	30.7	30.2	30.2	30.2
70°	26.3	25.2	23.9	23.4	23.1	22.2	21.7	21.6	22.0	21.9	22.0
72.5°	17.7	16.6	16.0	15.7	15.4	15.0	15.3	15.4	15.1	15.3	15.4
75°	10.7	10.4	10.0	9.8	9.8	10.0	9.8	9.8	10.0	10.0	10.1
77.5°	6.2	5.9	5.9	5.7	6.0	5.9	5.9	5.9	6.0	6.0	6.0
80°	3.3	3.3	3.3	3.3	3.5	3.3	3.5	3.5	3.5	3.5	3.5
82.5°	1.7	1.7	1.7	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.7
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.2	0.3	0.3	0.3	0.3	0.3	0.2	0.2	0.2	0.2	0.2
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: LX4C10D010 EX4C109027 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	392.7	392.7	392.7	392.7	392.7	392.7	392.7	392.7
2.5°	389.9	389.9	389.9	389.6	389.8	389.8	389.6	389.6
5°	385.7	385.6	385.3	385.3	385.0	385.3	385.1	385.3
7.5°	380.0	380.0	379.5	379.5	379.4	379.2	379.1	379.2
10°	373.2	373.2	372.9	372.7	372.9	372.3	372.3	372.1
12.5°	365.6	365.3	365.0	365.2	365.0	364.6	364.4	364.6
15°	356.9	356.4	356.6	356.1	356.1	356.0	356.3	356.3
17.5°	347.2	346.9	346.6	346.8	346.4	346.6	346.4	346.3
20°	336.5	336.3	336.3	335.7	335.9	335.7	335.9	336.3
22.5°	324.1	323.9	324.1	323.6	323.9	323.9	324.4	324.4
25°	310.5	310.4	310.7	310.8	311.0	311.4	311.0	311.1
27.5°	295.4	295.9	296.3	296.5	297.1	296.6	296.3	296.8
30°	280.1	280.1	280.0	280.6	281.1	281.5	280.8	280.8
32.5°	262.6	263.4	263.4	263.5	264.0	264.0	264.0	264.6
35°	245.9	246.3	246.5	245.9	246.2	246.0	247.1	247.1
37.5°	227.1	227.1	227.3	228.3	228.3	227.9	228.2	228.2
40°	209.3	209.5	208.9	209.2	209.9	209.6	209.9	210.2
42.5°	189.8	190.9	190.3	190.6	190.4	190.6	190.7	190.7
45°	171.3	171.6	171.6	171.7	172.0	172.3	171.4	171.3
47.5°	153.1	153.3	153.7	153.0	153.9	153.0	153.9	152.8
50°	134.9	135.5	135.0	135.3	134.9	134.9	134.7	134.6
52.5°	117.5	117.3	117.3	117.2	117.2	117.5	117.2	117.6
55°	100.1	100.3	100.0	99.8	99.7	100.1	99.7	99.4
57.5°	83.7	84.0	83.4	83.7	82.6	83.1	83.2	83.4
60°	68.4	68.0	68.0	67.4	67.4	67.8	67.2	67.2
62.5°	53.0	53.3	52.9	53.5	53.5	54.1	53.8	54.1
65°	40.6	40.8	40.9	40.9	40.9	41.8	41.5	41.1
67.5°	30.7	30.8	31.0	30.8	31.3	31.0	31.0	31.1
70°	22.2	22.4	22.5	22.5	22.4	22.5	22.5	22.5
72.5°	15.4	15.6	15.4	15.6	15.7	15.6	15.6	15.7
75°	10.1	10.1	10.0	10.0	10.0	10.0	10.1	10.0
77.5°	5.9	6.0	5.9	6.0	6.0	6.0	6.0	6.0
80°	3.5	3.5	3.5	3.3	3.5	3.5	3.5	3.3
82.5°	1.8	1.8	1.7	1.7	1.8	1.8	1.8	1.8
85°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	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)