

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: P859734

Luminaire Tested: **LX4C08D010 EX4C089730 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859734
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: LX4C08D010 EX4C089730 4LBLWWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 97CRI LEDS AND
4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

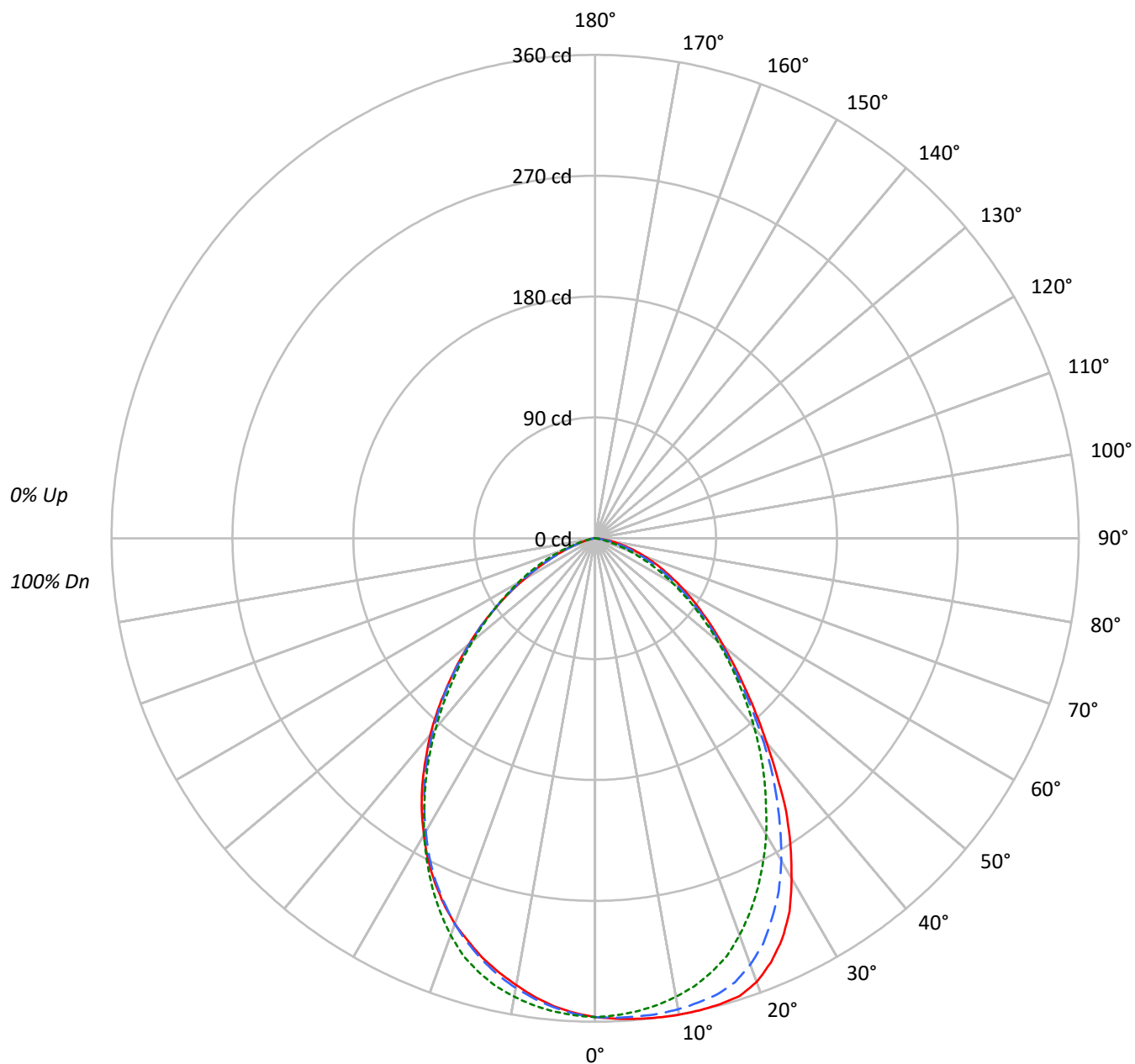
Lumens per Lamp: N/A
Luminaire Lumens: 672.0 lumens
Efficiency: N/A
Efficacy: 67.9 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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

TEST NUMBER: P859734

CATALOG NUMBER: LX4C08D010 EX4C089730 4LBLWWH

Luminous Intensity Polar Plot





TEST NUMBER: P859734

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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	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	49	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°	43810	43810	43810
5°	44298	43619	43151
10°	44947	43250	42153
15°	45686	42557	41145
20°	45967	41117	39927
25°	44651	38890	38294
30°	41494	36146	36174
35°	37149	32950	33655
40°	31802	29541	30615
45°	27382	26044	27017
50°	23795	22668	23356
55°	20948	19513	19320
60°	18625	16266	14988
65°	16337	13023	10843
70°	14045	9196	7328
75°	11392	5316	4319
80°	8136	2335	2122
85°	3101	987	987



TEST NUMBER: P859734

CATALOG NUMBER: LX4C08D010 EX4C089730 4LBLWWH

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	33.6	5.0
10°-20°	95.1	14.2
20°-30°	135.8	20.2
30°-40°	142.1	21.1
40°-50°	119.1	17.7
50°-60°	83.3	12.4
60°-70°	45.4	6.8
70°-80°	15.7	2.3
80°-90°	1.8	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°	264.6	39.4
0°-40°	406.7	60.5
0°-60°	609.1	90.6
0°-90°	672.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	672.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	357	357	357	357	357	
5°	359	358	354	351	350	34
15°	359	352	335	325	324	101
25°	329	312	287	281	282	150
35°	248	236	220	221	224	154
45°	158	154	150	155	156	123
55°	98	94	91	91	90	88
65°	56	51	45	38	37	56
75°	24	20	11	9	9	26
85°	2	1	1	1	1	4
90°	0	0	0	0	0	



TEST NUMBER: P859734

CATALOG NUMBER: LX4C08D010 EX4C089730 4LBLWWH

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	22.5°	25°	30°	35°	40°	45°
0°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	358.2	357.8	358.0	358.0	358.0	357.8	358.0	357.8	357.8	357.7	357.4
5°	359.2	358.9	358.9	358.9	358.8	358.6	358.6	358.5	358.2	358.1	357.5
7.5°	359.9	359.6	359.6	359.5	359.3	359.2	359.0	358.6	358.2	358.0	357.3
10°	360.3	359.9	359.9	359.6	359.3	359.2	358.9	358.4	357.8	357.1	356.2
12.5°	360.0	359.6	359.5	359.2	358.6	358.4	358.1	357.4	356.4	355.5	354.2
15°	359.2	358.9	358.6	358.2	357.5	357.1	356.9	355.8	354.5	353.2	351.6
17.5°	357.5	357.1	356.6	356.0	355.1	354.7	354.0	352.6	350.8	348.9	346.6
20°	351.6	351.4	350.8	349.9	348.4	347.8	346.8	345.1	342.7	340.4	337.9
22.5°	341.9	341.5	340.7	339.8	338.5	337.5	336.7	334.2	331.6	329.2	326.8
25°	329.4	329.0	327.9	326.8	325.4	323.8	323.0	321.1	318.5	315.3	311.9
27.5°	313.4	312.0	311.6	310.4	308.3	307.8	306.5	304.1	301.6	298.8	296.0
30°	292.5	292.5	291.7	291.2	289.2	288.7	287.3	284.7	283.3	279.5	277.3
32.5°	270.5	270.2	269.5	269.1	268.0	267.0	265.7	264.3	261.3	259.3	256.3
35°	247.7	246.0	246.3	245.5	244.8	243.7	243.6	242.1	239.3	238.2	235.5
37.5°	221.8	221.1	222.0	220.8	220.1	220.3	219.2	218.2	217.1	215.2	214.6
40°	198.3	198.9	198.7	197.6	198.2	197.5	196.4	195.4	194.9	193.7	193.2
42.5°	177.3	176.5	176.2	176.2	176.4	176.4	175.8	175.1	175.1	173.9	172.7
45°	157.6	157.6	157.3	158.1	156.9	156.9	156.5	156.3	155.8	155.5	154.0
47.5°	140.6	140.4	140.3	140.2	140.0	140.0	139.2	138.5	138.4	137.6	136.7
50°	124.5	125.4	125.1	124.4	124.1	124.3	123.7	123.3	123.2	121.8	121.9
52.5°	111.1	111.0	111.2	110.8	110.1	110.3	109.7	109.2	108.6	107.9	107.4
55°	97.8	98.5	98.2	97.8	97.6	97.4	97.0	96.3	96.1	94.6	94.5
57.5°	86.7	86.5	86.3	85.6	85.4	85.0	85.0	84.5	83.7	82.8	82.2
60°	75.8	75.8	75.4	75.3	74.7	74.6	74.5	73.9	73.0	72.3	71.2
62.5°	65.4	65.7	65.4	65.0	64.6	64.0	63.8	63.4	62.5	61.9	60.9
65°	56.2	56.1	56.0	55.4	55.3	54.7	54.6	53.8	52.9	52.4	51.3
67.5°	47.5	47.0	47.0	46.8	46.5	46.1	45.8	45.0	44.0	43.5	42.4
70°	39.1	38.8	38.8	38.8	38.1	37.7	37.6	37.2	35.8	35.2	34.1
72.5°	31.4	31.3	31.1	30.7	30.3	30.3	29.8	28.9	28.3	27.6	26.7
75°	24.0	24.3	24.0	23.5	23.3	23.0	22.6	21.9	21.3	20.4	19.5
77.5°	17.6	17.3	17.0	17.0	16.7	16.2	16.0	15.5	14.7	14.1	13.2
80°	11.5	11.4	11.1	10.8	10.7	10.6	10.4	9.9	9.1	8.6	7.8
82.5°	6.3	6.2	6.2	6.0	5.6	5.6	5.5	4.9	4.5	4.3	3.8
85°	2.2	2.2	2.2	2.1	2.1	2.1	1.9	1.8	1.6	1.5	1.2
87.5°	0.3	0.1	0.3	0.1	0.3	0.1	0.1	0.1	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P859734

CATALOG NUMBER: LX4C08D010 EX4C089730 4LBLWWH

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	357.1	356.9	356.7	356.6	356.4	356.3	356.2	355.9	355.8	355.6	355.3
5°	357.1	356.6	356.3	355.9	355.6	355.3	354.9	354.5	354.1	353.7	353.3
7.5°	356.6	355.8	355.2	354.4	354.1	353.7	352.9	352.3	351.6	350.8	349.9
10°	355.2	354.2	353.2	352.1	351.6	351.0	349.9	348.9	347.8	346.7	345.7
12.5°	353.0	351.5	350.1	348.6	347.8	347.1	345.6	344.2	342.9	341.6	340.0
15°	349.7	347.9	346.2	344.1	343.1	342.3	340.1	338.5	336.3	334.6	333.0
17.5°	344.4	341.6	339.4	336.8	335.5	334.5	332.6	330.0	327.9	326.1	324.2
20°	335.2	332.6	329.6	326.7	325.2	323.9	321.2	318.5	316.4	314.5	312.4
22.5°	323.1	319.8	317.6	314.1	312.8	311.3	308.0	305.6	303.2	301.3	299.4
25°	308.4	305.6	302.5	299.3	297.7	296.0	293.2	290.6	289.1	286.9	284.6
27.5°	291.6	289.2	285.5	282.7	281.1	279.8	277.2	274.8	272.6	271.1	268.9
30°	273.7	271.0	267.7	264.7	263.9	262.2	259.9	258.1	255.8	254.8	253.9
32.5°	254.1	251.0	248.5	246.6	244.9	243.6	242.3	239.5	239.0	236.6	236.3
35°	232.7	231.4	229.0	227.4	226.0	225.1	223.0	221.6	220.1	219.7	218.7
37.5°	212.6	210.9	208.7	207.2	206.3	206.1	204.6	203.8	202.7	202.2	201.1
40°	191.5	190.8	188.9	188.6	187.1	186.9	186.1	185.1	184.2	184.2	184.3
42.5°	172.0	171.2	170.3	169.4	168.6	168.6	168.1	167.9	167.6	167.2	167.9
45°	153.7	152.6	152.1	151.1	151.5	150.7	150.4	150.4	150.0	149.9	150.9
47.5°	136.7	135.5	135.0	134.7	134.7	134.8	133.6	134.0	133.9	134.1	134.5
50°	121.2	120.1	119.3	119.3	119.5	118.9	118.4	118.8	118.4	118.6	119.6
52.5°	106.8	105.7	105.3	105.3	104.5	104.4	104.6	104.1	104.2	104.4	104.9
55°	93.5	92.8	92.2	91.5	91.6	91.3	90.8	90.7	90.9	91.1	91.8
57.5°	81.6	80.6	79.7	79.4	79.1	79.1	78.4	78.3	78.6	77.9	77.9
60°	70.2	69.7	68.4	68.0	68.0	67.3	66.8	67.1	66.4	66.2	66.4
62.5°	59.7	59.2	58.4	57.6	57.3	57.1	56.4	56.1	55.8	55.3	54.4
65°	50.5	49.5	48.5	48.0	47.6	46.9	46.5	45.9	45.1	44.8	44.0
67.5°	41.3	40.3	39.4	38.9	38.5	38.1	37.4	36.8	35.8	34.7	33.7
70°	33.2	32.0	31.4	30.3	30.0	29.5	28.5	27.8	26.9	25.6	24.7
72.5°	25.4	24.5	23.7	22.8	22.1	21.7	20.8	19.7	18.7	18.0	17.0
75°	18.2	17.8	16.7	15.6	15.4	14.8	13.9	13.2	12.3	11.2	10.4
77.5°	12.3	11.5	10.8	9.9	9.6	9.1	8.5	7.8	7.3	6.6	6.0
80°	7.3	6.6	6.2	5.5	5.2	4.9	4.5	4.0	3.6	3.3	3.2
82.5°	3.6	3.0	2.9	2.5	2.3	2.2	1.9	1.8	1.5	1.5	1.5
85°	1.2	1.0	1.0	0.8	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P859734

CATALOG NUMBER: LX4C08D010 EX4C089730 4LBLWWH

CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	355.2	355.1	354.9	354.8	354.8	354.7	354.7	354.5	354.5	354.4	354.4
5°	352.7	352.3	352.1	351.8	351.8	351.4	351.1	350.8	350.7	350.7	350.4
7.5°	349.3	348.8	348.2	347.8	347.7	347.0	346.4	346.4	345.9	345.6	345.3
10°	344.8	343.8	343.0	342.6	342.0	341.6	340.9	340.5	340.1	339.4	339.3
12.5°	338.6	337.9	336.7	336.1	335.9	335.0	334.0	333.4	333.3	332.7	332.3
15°	331.6	330.1	329.0	328.3	328.3	327.0	326.4	325.6	325.0	324.6	324.5
17.5°	322.6	321.1	320.0	319.0	318.7	317.6	316.8	316.5	315.8	316.1	315.4
20°	310.9	309.7	308.9	307.6	307.6	306.9	306.7	306.0	305.7	305.4	305.7
22.5°	298.4	296.9	295.5	295.4	295.4	294.5	294.3	294.2	293.6	294.0	293.9
25°	283.8	282.7	281.8	281.7	281.7	281.1	280.6	280.9	281.3	281.1	281.6
27.5°	268.5	267.4	267.2	267.0	266.7	266.6	266.9	266.9	267.3	267.8	268.4
30°	252.1	251.8	251.4	251.3	251.0	251.7	251.9	252.3	252.2	253.0	253.6
32.5°	235.6	235.1	234.9	235.2	235.6	235.5	236.3	236.6	236.9	237.8	238.2
35°	219.0	218.9	218.6	218.6	218.7	219.8	219.8	220.8	221.4	221.6	222.7
37.5°	201.2	201.7	202.0	202.4	202.6	203.0	203.3	204.2	204.8	205.3	205.9
40°	184.9	184.6	185.8	185.0	185.3	186.5	187.1	186.9	187.8	188.6	189.1
42.5°	167.5	167.9	168.1	168.4	169.1	169.2	169.9	170.9	171.2	172.1	172.4
45°	150.6	150.7	151.3	151.8	152.2	153.3	153.6	154.0	154.8	154.8	155.2
47.5°	134.7	135.2	135.2	136.0	136.7	136.6	137.6	137.8	137.7	138.4	138.7
50°	119.5	120.3	120.1	120.7	121.0	121.1	121.9	122.2	121.6	122.3	122.5
52.5°	104.9	105.3	105.9	106.0	105.7	106.4	106.2	106.7	106.6	107.1	106.6
55°	91.6	91.5	91.5	91.8	91.5	91.8	92.0	91.5	91.1	91.6	91.5
57.5°	78.3	78.3	78.0	78.4	78.0	77.6	77.5	77.1	76.7	76.7	76.5
60°	65.8	65.6	65.0	64.9	64.9	64.2	63.9	63.4	63.4	62.8	62.3
62.5°	54.2	53.5	53.1	53.1	52.8	52.1	50.9	50.1	49.8	49.0	48.8
65°	43.2	42.5	42.1	41.3	40.6	40.3	39.1	38.1	37.7	36.9	37.0
67.5°	33.2	32.1	30.9	30.3	29.9	28.9	28.5	27.8	27.4	27.4	27.4
70°	23.9	22.9	21.7	21.3	21.0	20.2	19.7	19.6	20.0	19.9	20.0
72.5°	16.0	15.1	14.5	14.3	14.0	13.6	13.9	14.0	13.7	13.9	14.0
75°	9.7	9.5	9.1	8.9	8.9	9.1	8.9	8.9	9.1	9.1	9.2
77.5°	5.6	5.3	5.3	5.2	5.5	5.3	5.3	5.3	5.5	5.5	5.5
80°	3.0	3.0	3.0	3.0	3.2	3.0	3.2	3.2	3.2	3.2	3.2
82.5°	1.5	1.5	1.5	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.5
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.1	0.3	0.3	0.3	0.3	0.3	0.1	0.1	0.1	0.1	0.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P859734

CATALOG NUMBER: LX4C08D010 EX4C089730 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	356.6	356.6	356.6	356.6	356.6	356.6	356.6	356.6
2.5°	354.1	354.1	354.1	353.8	354.0	354.0	353.8	353.8
5°	350.3	350.1	349.9	349.9	349.6	349.9	349.7	349.9
7.5°	345.1	345.1	344.6	344.6	344.5	344.4	344.2	344.4
10°	338.9	338.9	338.6	338.5	338.6	338.1	338.1	337.9
12.5°	332.0	331.8	331.5	331.6	331.5	331.1	330.9	331.1
15°	324.1	323.7	323.8	323.4	323.4	323.3	323.5	323.5
17.5°	315.3	315.0	314.8	314.9	314.6	314.8	314.6	314.5
20°	305.6	305.4	305.4	304.9	305.0	304.9	305.0	305.4
22.5°	294.3	294.2	294.3	293.9	294.2	294.2	294.6	294.6
25°	282.0	281.8	282.1	282.2	282.4	282.8	282.4	282.5
27.5°	268.3	268.7	269.1	269.2	269.8	269.4	269.1	269.5
30°	254.4	254.4	254.3	254.8	255.2	255.6	255.0	255.0
32.5°	238.5	239.2	239.2	239.3	239.7	239.7	239.7	240.3
35°	223.3	223.7	223.8	223.3	223.5	223.4	224.4	224.4
37.5°	206.3	206.3	206.4	207.4	207.4	207.0	207.2	207.2
40°	190.1	190.2	189.7	189.9	190.6	190.4	190.6	190.9
42.5°	172.4	173.4	172.8	173.1	172.9	173.1	173.2	173.2
45°	155.5	155.8	155.8	155.9	156.2	156.5	155.7	155.5
47.5°	139.1	139.2	139.6	138.9	139.8	138.9	139.8	138.8
50°	122.5	123.0	122.6	122.9	122.5	122.5	122.3	122.2
52.5°	106.7	106.6	106.6	106.4	106.4	106.7	106.4	106.8
55°	90.9	91.1	90.8	90.7	90.5	90.9	90.5	90.2
57.5°	76.0	76.3	75.7	76.0	75.0	75.4	75.6	75.7
60°	62.1	61.7	61.7	61.2	61.2	61.6	61.0	61.0
62.5°	48.1	48.4	48.0	48.5	48.5	49.1	48.8	49.1
65°	36.9	37.0	37.2	37.2	37.2	38.0	37.7	37.3
67.5°	27.8	28.0	28.1	28.0	28.4	28.1	28.1	28.3
70°	20.2	20.3	20.4	20.4	20.3	20.4	20.4	20.4
72.5°	14.0	14.1	14.0	14.1	14.3	14.1	14.1	14.3
75°	9.2	9.2	9.1	9.1	9.1	9.1	9.2	9.1
77.5°	5.3	5.5	5.3	5.5	5.5	5.5	5.5	5.5
80°	3.2	3.2	3.2	3.0	3.2	3.2	3.2	3.0
82.5°	1.6	1.6	1.5	1.5	1.6	1.6	1.6	1.6
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	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)