

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: P859672

Luminaire Tested: **LX4C08D010 EX4C089035 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859672
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 EX4C089035 4LBLWWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3500K, 90CRI LEDS AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

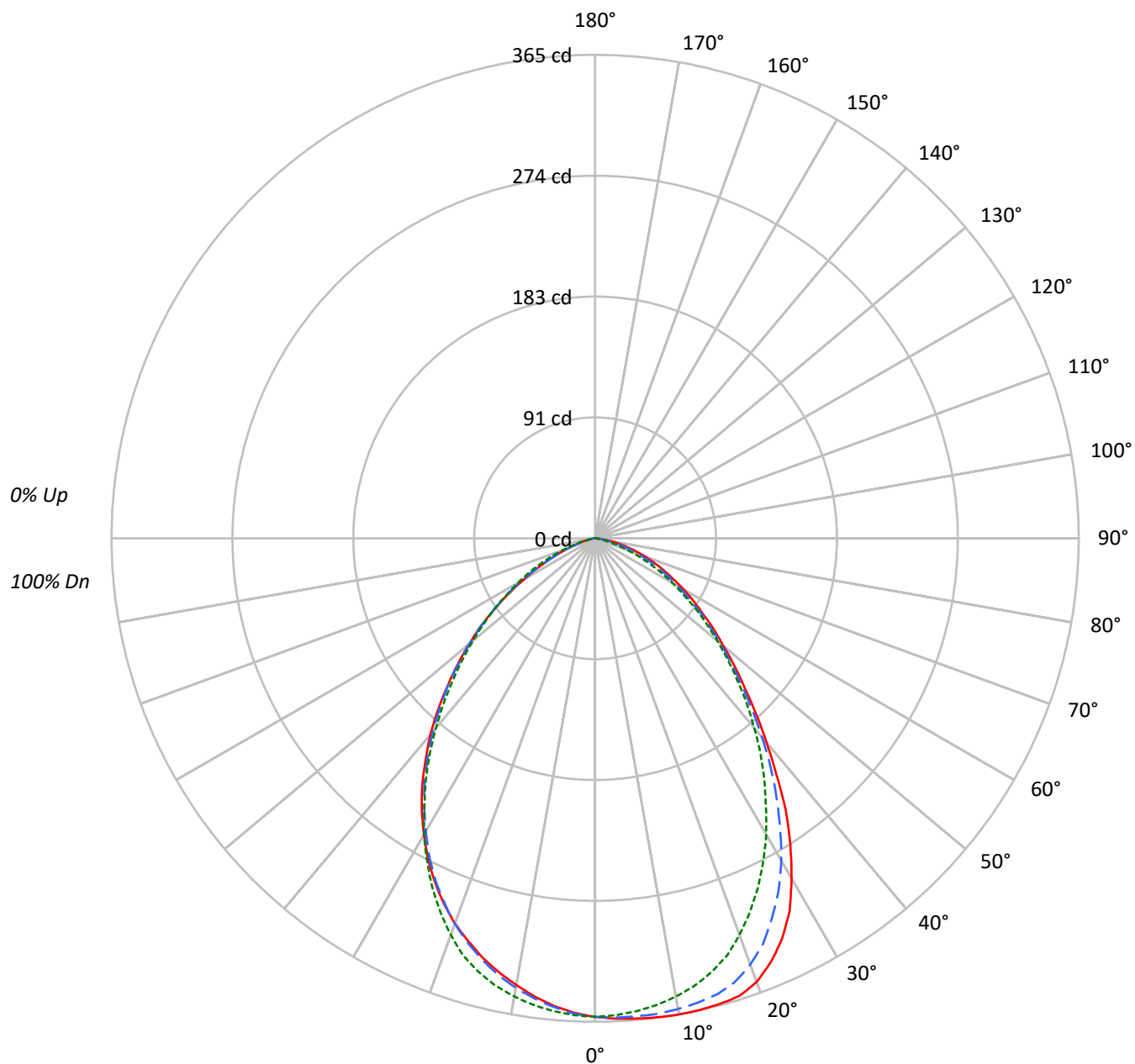
Lumens per Lamp: N/A
Luminaire Lumens: 681.0 lumens
Efficiency: N/A
Efficacy: 68.8 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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

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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	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°	44399	44399	44399
5°	44889	44199	43718
10°	45546	43824	42726
15°	46296	43129	41705
20°	46595	41666	40463
25°	45248	39419	38809
30°	42061	36628	36656
35°	37644	33400	34105
40°	32235	29942	31032
45°	27746	26391	27382
50°	24120	22973	23661
55°	21226	19770	19598
60°	18895	16487	15185
65°	16570	13198	10988
70°	14224	9339	7435
75°	11534	5411	4367
80°	8278	2335	2193
85°	3101	987	987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.1	5.0
10°-20°	96.4	14.2
20°-30°	137.7	20.2
30°-40°	144.0	21.1
40°-50°	120.7	17.7
50°-60°	84.4	12.4
60°-70°	46.0	6.8
70°-80°	16.0	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°	268.1	39.4
0°-40°	412.1	60.5
0°-60°	617.2	90.6
0°-90°	681.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	681.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	361	361	361	361	361	
5°	364	362	358	355	354	35
15°	364	356	339	329	328	103
25°	334	316	291	285	286	152
35°	251	239	223	224	227	156
45°	160	156	152	157	158	124
55°	99	96	92	92	92	90
65°	57	52	45	38	38	57
75°	24	20	11	9	9	26
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°	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4
2.5°	363.0	362.6	362.7	362.7	362.7	362.6	362.7	362.6	362.6	362.5	362.2
5°	364.0	363.7	363.7	363.7	363.6	363.4	363.4	363.3	363.0	362.9	362.3
7.5°	364.7	364.4	364.4	364.3	364.1	364.0	363.9	363.4	363.0	362.7	362.1
10°	365.1	364.7	364.7	364.4	364.1	364.0	363.7	363.2	362.6	361.9	360.9
12.5°	364.8	364.4	364.3	364.0	363.4	363.2	362.9	362.2	361.2	360.2	359.0
15°	364.0	363.7	363.4	363.0	362.3	361.9	361.6	360.5	359.3	357.9	356.4
17.5°	362.3	361.9	361.4	360.8	359.8	359.4	358.7	357.3	355.5	353.6	351.2
20°	356.4	356.1	355.5	354.5	353.0	352.5	351.5	349.7	347.3	345.0	342.5
22.5°	346.5	346.1	345.2	344.4	343.0	342.0	341.2	338.7	336.1	333.6	331.2
25°	333.8	333.4	332.3	331.2	329.8	328.1	327.3	325.4	322.7	319.5	316.0
27.5°	317.6	316.2	315.8	314.5	312.4	311.9	310.6	308.1	305.6	302.8	299.9
30°	296.5	296.5	295.6	295.1	293.1	292.6	291.2	288.5	287.1	283.2	281.0
32.5°	274.1	273.8	273.1	272.7	271.6	270.6	269.2	267.8	264.8	262.8	259.8
35°	251.0	249.3	249.6	248.8	248.1	247.0	246.8	245.3	242.5	241.4	238.6
37.5°	224.7	224.0	225.0	223.8	223.1	223.2	222.1	221.1	220.0	218.1	217.5
40°	201.0	201.5	201.4	200.3	200.8	200.1	199.0	198.1	197.5	196.2	195.8
42.5°	179.7	178.9	178.6	178.6	178.7	178.7	178.2	177.5	177.5	176.2	175.0
45°	159.7	159.7	159.4	160.2	159.0	159.0	158.6	158.4	157.9	157.6	156.1
47.5°	142.5	142.3	142.2	142.0	141.9	141.9	141.1	140.4	140.2	139.4	138.6
50°	126.2	127.0	126.8	126.1	125.8	125.9	125.4	124.9	124.8	123.4	123.6
52.5°	112.6	112.4	112.7	112.3	111.6	111.7	111.2	110.6	110.1	109.4	108.8
55°	99.1	99.8	99.5	99.1	99.0	98.7	98.3	97.6	97.4	95.9	95.8
57.5°	87.8	87.7	87.4	86.7	86.6	86.2	86.2	85.6	84.8	83.9	83.3
60°	76.9	76.9	76.4	76.3	75.7	75.6	75.5	74.9	73.9	73.2	72.1
62.5°	66.3	66.6	66.3	65.9	65.5	64.9	64.6	64.2	63.4	62.7	61.7
65°	57.0	56.8	56.7	56.1	56.0	55.5	55.3	54.5	53.6	53.1	52.0
67.5°	48.1	47.7	47.7	47.4	47.1	46.7	46.4	45.6	44.6	44.1	42.9
70°	39.6	39.3	39.3	39.3	38.6	38.2	38.1	37.7	36.3	35.7	34.6
72.5°	31.8	31.7	31.5	31.1	30.7	30.7	30.2	29.3	28.6	27.9	27.1
75°	24.3	24.6	24.3	23.8	23.6	23.3	22.9	22.2	21.5	20.7	19.7
77.5°	17.8	17.5	17.2	17.2	17.0	16.4	16.3	15.7	14.9	14.3	13.3
80°	11.7	11.5	11.3	11.0	10.8	10.7	10.6	10.0	9.2	8.8	7.9
82.5°	6.4	6.3	6.3	6.1	5.7	5.7	5.6	5.0	4.6	4.3	3.9
85°	2.2	2.2	2.2	2.1	2.1	2.1	1.9	1.8	1.7	1.5	1.3
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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4
2.5°	361.9	361.6	361.5	361.4	361.2	361.1	360.9	360.7	360.5	360.4	360.1
5°	361.9	361.4	361.1	360.7	360.4	360.1	359.7	359.3	358.9	358.4	358.0
7.5°	361.4	360.5	360.0	359.1	358.9	358.4	357.6	357.0	356.4	355.5	354.5
10°	360.0	359.0	357.9	356.8	356.4	355.7	354.5	353.6	352.5	351.3	350.4
12.5°	357.7	356.2	354.8	353.3	352.5	351.8	350.2	348.8	347.5	346.2	344.5
15°	354.4	352.6	350.8	348.7	347.7	346.9	344.7	343.0	340.8	339.1	337.5
17.5°	349.0	346.2	344.0	341.3	340.0	339.0	337.0	334.4	332.3	330.5	328.6
20°	339.7	337.0	334.0	331.1	329.5	328.3	325.5	322.7	320.6	318.7	316.6
22.5°	327.4	324.1	321.9	318.3	317.0	315.5	312.2	309.7	307.3	305.3	303.4
25°	312.6	309.7	306.6	303.3	301.7	299.9	297.1	294.5	293.0	290.8	288.4
27.5°	295.5	293.1	289.4	286.4	284.9	283.5	280.9	278.5	276.3	274.8	272.5
30°	277.4	274.6	271.3	268.2	267.4	265.7	263.4	261.6	259.2	258.2	257.3
32.5°	257.5	254.3	251.8	249.9	248.2	246.8	245.6	242.7	242.2	239.7	239.5
35°	235.9	234.5	232.1	230.4	229.0	228.1	226.0	224.6	223.1	222.7	221.7
37.5°	215.4	213.8	211.5	210.0	209.0	208.9	207.4	206.5	205.4	204.9	203.7
40°	194.0	193.3	191.4	191.1	189.6	189.4	188.6	187.6	186.7	186.7	186.8
42.5°	174.3	173.5	172.6	171.6	170.8	170.8	170.4	170.1	169.8	169.4	170.1
45°	155.8	154.7	154.1	153.2	153.6	152.7	152.5	152.5	152.0	151.9	152.9
47.5°	138.6	137.3	136.8	136.5	136.5	136.6	135.4	135.8	135.6	135.9	136.3
50°	122.9	121.7	120.9	120.9	121.1	120.5	119.9	120.4	119.9	120.2	121.2
52.5°	108.3	107.2	106.7	106.7	105.9	105.8	106.0	105.5	105.6	105.8	106.3
55°	94.8	94.1	93.4	92.7	92.8	92.6	92.0	91.9	92.1	92.3	93.0
57.5°	82.7	81.7	80.7	80.5	80.2	80.2	79.5	79.4	79.6	78.9	78.9
60°	71.2	70.6	69.4	68.9	68.9	68.2	67.7	68.0	67.3	67.1	67.3
62.5°	60.5	60.0	59.2	58.4	58.1	57.8	57.1	56.8	56.6	56.0	55.2
65°	51.1	50.2	49.2	48.6	48.2	47.5	47.1	46.6	45.7	45.4	44.6
67.5°	41.8	40.9	39.9	39.5	39.1	38.6	37.9	37.2	36.3	35.2	34.2
70°	33.6	32.4	31.8	30.7	30.4	29.9	28.9	28.2	27.2	26.0	25.0
72.5°	25.7	24.9	24.0	23.1	22.4	22.0	21.1	20.0	18.9	18.2	17.2
75°	18.5	18.1	17.0	15.8	15.6	15.0	14.0	13.3	12.5	11.4	10.6
77.5°	12.5	11.7	11.0	10.0	9.7	9.2	8.6	7.9	7.4	6.7	6.1
80°	7.4	6.7	6.3	5.6	5.3	5.0	4.6	4.0	3.6	3.3	3.2
82.5°	3.6	3.1	2.9	2.5	2.4	2.2	1.9	1.8	1.5	1.5	1.5
85°	1.3	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



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CANDELA DISTRIBUTION (continued):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4
2.5°	360.0	359.8	359.7	359.5	359.5	359.4	359.4	359.3	359.3	359.1	359.1
5°	357.5	357.0	356.8	356.5	356.5	356.1	355.8	355.5	355.4	355.4	355.1
7.5°	354.0	353.4	352.9	352.5	352.3	351.6	351.1	351.1	350.5	350.2	350.0
10°	349.4	348.4	347.6	347.2	346.6	346.2	345.5	345.1	344.7	344.0	343.8
12.5°	343.1	342.5	341.2	340.6	340.4	339.5	338.4	337.9	337.7	337.2	336.8
15°	336.1	334.5	333.4	332.7	332.7	331.3	330.8	329.9	329.4	329.0	328.8
17.5°	326.9	325.4	324.2	323.3	323.0	321.9	321.1	320.8	320.1	320.4	319.7
20°	315.1	313.8	313.0	311.7	311.7	311.0	310.8	310.1	309.8	309.5	309.8
22.5°	302.4	300.9	299.5	299.4	299.4	298.4	298.3	298.1	297.6	298.0	297.8
25°	287.6	286.4	285.6	285.5	285.5	284.9	284.4	284.6	285.1	284.9	285.3
27.5°	272.1	271.0	270.7	270.6	270.3	270.2	270.5	270.5	270.9	271.4	272.0
30°	255.5	255.2	254.8	254.6	254.3	255.0	255.3	255.7	255.6	256.4	257.0
32.5°	238.8	238.2	238.1	238.4	238.8	238.6	239.5	239.7	240.0	241.0	241.4
35°	222.0	221.8	221.5	221.5	221.7	222.8	222.8	223.8	224.3	224.6	225.7
37.5°	203.9	204.4	204.7	205.1	205.3	205.7	206.0	206.9	207.5	208.1	208.6
40°	187.3	187.1	188.3	187.5	187.8	189.0	189.6	189.4	190.3	191.1	191.7
42.5°	169.7	170.1	170.4	170.7	171.4	171.5	172.2	173.2	173.5	174.4	174.7
45°	152.6	152.7	153.3	153.9	154.3	155.4	155.7	156.1	156.9	156.9	157.3
47.5°	136.5	137.0	137.0	137.9	138.6	138.4	139.4	139.7	139.5	140.2	140.5
50°	121.1	121.9	121.7	122.3	122.6	122.7	123.6	123.8	123.3	124.0	124.1
52.5°	106.3	106.7	107.3	107.4	107.2	107.9	107.6	108.1	108.0	108.5	108.0
55°	92.8	92.7	92.7	93.0	92.7	93.0	93.3	92.7	92.3	92.8	92.7
57.5°	79.4	79.4	79.1	79.5	79.1	78.7	78.5	78.1	77.7	77.7	77.6
60°	66.7	66.4	65.9	65.7	65.7	65.0	64.8	64.2	64.2	63.7	63.1
62.5°	54.9	54.2	53.8	53.8	53.5	52.8	51.6	50.7	50.5	49.6	49.5
65°	43.8	43.1	42.7	41.8	41.1	40.9	39.6	38.6	38.2	37.4	37.5
67.5°	33.6	32.5	31.3	30.7	30.3	29.3	28.9	28.2	27.8	27.8	27.8
70°	24.2	23.2	22.0	21.5	21.3	20.4	20.0	19.9	20.3	20.2	20.3
72.5°	16.3	15.3	14.7	14.5	14.2	13.8	14.0	14.2	13.9	14.0	14.2
75°	9.9	9.6	9.2	9.0	9.0	9.2	9.0	9.0	9.2	9.2	9.3
77.5°	5.7	5.4	5.4	5.3	5.6	5.4	5.4	5.4	5.6	5.6	5.6
80°	3.1	3.1	3.1	3.1	3.2	3.1	3.2	3.2	3.2	3.2	3.2
82.5°	1.5	1.5	1.5	1.7	1.7	1.7	1.7	1.7	1.7	1.7	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



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	361.4	361.4	361.4	361.4	361.4	361.4	361.4	361.4
2.5°	358.9	358.9	358.9	358.6	358.7	358.7	358.6	358.6
5°	355.0	354.8	354.5	354.5	354.3	354.5	354.4	354.5
7.5°	349.7	349.7	349.3	349.3	349.1	349.0	348.8	349.0
10°	343.4	343.4	343.1	343.0	343.1	342.6	342.6	342.5
12.5°	336.5	336.2	335.9	336.1	335.9	335.5	335.4	335.5
15°	328.4	328.0	328.1	327.7	327.7	327.6	327.9	327.9
17.5°	319.5	319.2	319.0	319.1	318.8	319.0	318.8	318.7
20°	309.7	309.5	309.5	309.0	309.1	309.0	309.1	309.5
22.5°	298.3	298.1	298.3	297.8	298.1	298.1	298.5	298.5
25°	285.7	285.6	285.9	286.0	286.2	286.6	286.2	286.3
27.5°	271.9	272.3	272.7	272.8	273.4	273.0	272.7	273.1
30°	257.8	257.8	257.7	258.2	258.6	259.1	258.4	258.4
32.5°	241.7	242.4	242.4	242.5	242.9	242.9	242.9	243.5
35°	226.3	226.7	226.8	226.3	226.5	226.4	227.4	227.4
37.5°	209.0	209.0	209.2	210.1	210.1	209.7	210.0	210.0
40°	192.6	192.8	192.2	192.5	193.2	192.9	193.2	193.5
42.5°	174.7	175.7	175.1	175.4	175.3	175.4	175.5	175.5
45°	157.6	157.9	157.9	158.0	158.3	158.6	157.7	157.6
47.5°	140.9	141.1	141.5	140.8	141.6	140.8	141.6	140.7
50°	124.1	124.7	124.3	124.5	124.1	124.1	124.0	123.8
52.5°	108.1	108.0	108.0	107.9	107.9	108.1	107.9	108.3
55°	92.1	92.3	92.0	91.9	91.7	92.1	91.7	91.5
57.5°	77.0	77.3	76.7	77.0	76.0	76.4	76.6	76.7
60°	63.0	62.5	62.5	62.0	62.0	62.4	61.8	61.8
62.5°	48.8	49.1	48.6	49.2	49.2	49.8	49.5	49.8
65°	37.4	37.5	37.7	37.7	37.7	38.5	38.2	37.8
67.5°	28.2	28.4	28.5	28.4	28.8	28.5	28.5	28.6
70°	20.4	20.6	20.7	20.7	20.6	20.7	20.7	20.7
72.5°	14.2	14.3	14.2	14.3	14.5	14.3	14.3	14.5
75°	9.3	9.3	9.2	9.2	9.2	9.2	9.3	9.2
77.5°	5.4	5.6	5.4	5.6	5.6	5.6	5.6	5.6
80°	3.2	3.2	3.2	3.1	3.2	3.2	3.2	3.1
82.5°	1.7	1.7	1.5	1.5	1.7	1.7	1.7	1.7
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)