

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: P859626

Luminaire Tested: **LX4C08D010 EX4C089027 4LBLWWH**

Issue Date: 2/14/2022



Test Information

Test Method: LM-79-08
Report Number: P859626
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 EX4C089027 4LBLWWH
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 2700K, 90CRI LEDS AND 4LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Summary

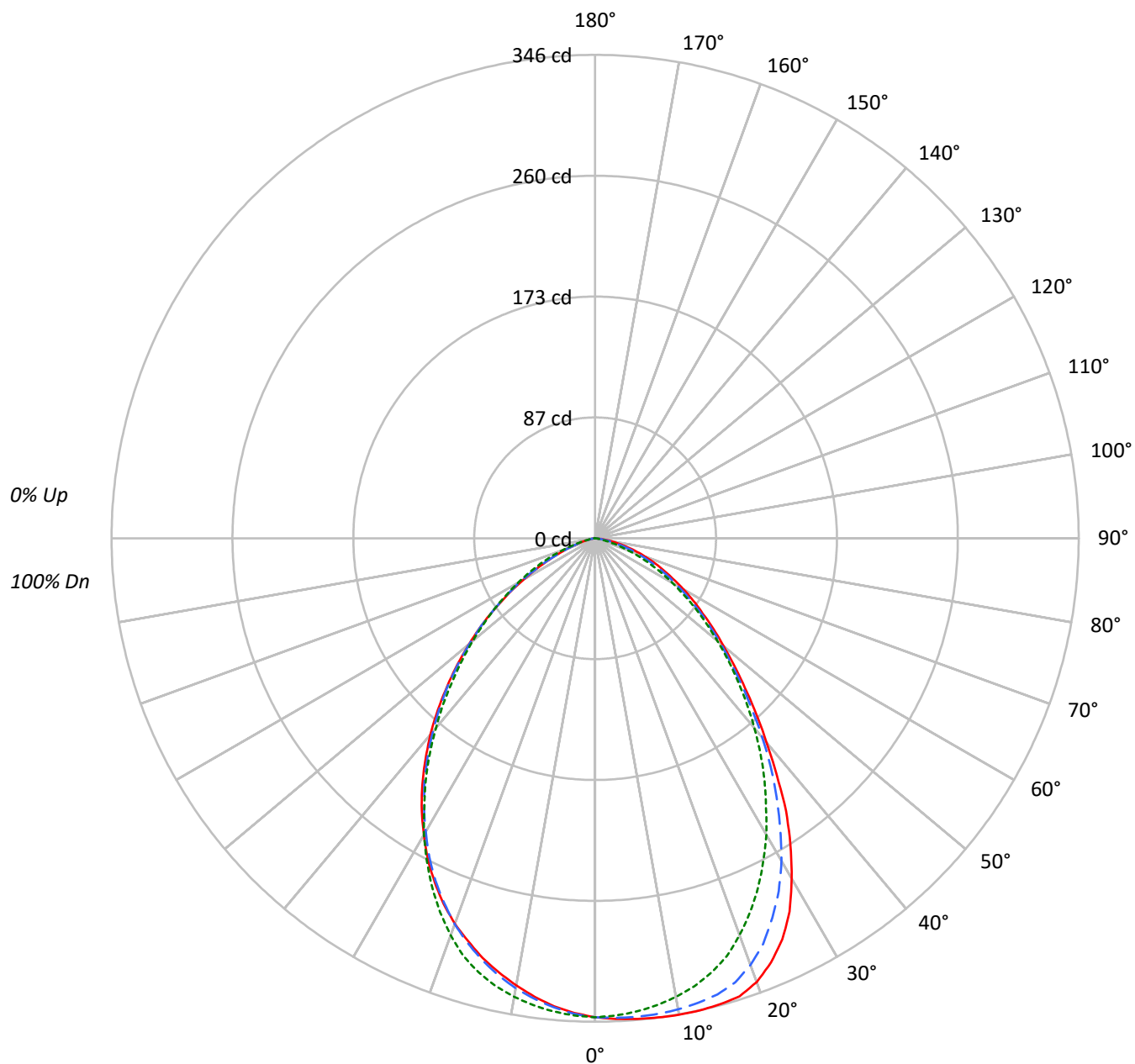
Lumens per Lamp: N/A
Luminaire Lumens: 646.0 lumens
Efficiency: N/A
Efficacy: 65.3 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.09 / 1.17
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

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°	42114	42114	42114
5°	42583	41930	41473
10°	43200	41579	40531
15°	43918	40916	39555
20°	44189	39522	38385
25°	42930	37386	36816
30°	39891	34755	34770
35°	35709	31675	32350
40°	30567	28402	29429
45°	26322	25036	25974
50°	22878	21788	22457
55°	20134	18741	18592
60°	17912	15652	14423
65°	15727	12529	10436
70°	13506	8872	7040
75°	10965	5126	4130
80°	7853	2264	2052
85°	2960	987	987



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	5.0
10°-20°	91.4	14.2
20°-30°	130.6	20.2
30°-40°	136.6	21.1
40°-50°	114.5	17.7
50°-60°	80.1	12.4
60°-70°	43.6	6.8
70°-80°	15.1	2.3
80°-90°	1.7	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°	254.3	39.4
0°-40°	390.9	60.5
0°-60°	585.5	90.6
0°-90°	646.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	646.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	343	343	343	343	343	
5°	345	344	340	337	336	33
15°	345	338	322	312	311	98
25°	317	300	276	270	272	145
35°	238	226	211	213	216	148
45°	152	148	144	149	150	118
55°	94	91	88	88	87	85
65°	54	49	43	36	36	54
75°	23	19	11	9	9	25
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°	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8
2.5°	344.4	344.0	344.1	344.1	344.1	344.0	344.1	344.0	344.0	343.8	343.6
5°	345.3	345.0	345.0	345.0	344.9	344.8	344.8	344.6	344.4	344.2	343.7
7.5°	345.9	345.7	345.7	345.6	345.4	345.3	345.2	344.8	344.4	344.1	343.4
10°	346.3	345.9	345.9	345.7	345.4	345.3	345.0	344.5	344.0	343.3	342.4
12.5°	346.1	345.7	345.6	345.3	344.8	344.5	344.2	343.6	342.7	341.7	340.5
15°	345.3	345.0	344.8	344.4	343.7	343.3	343.0	342.0	340.8	339.5	338.0
17.5°	343.7	343.3	342.8	342.3	341.3	340.9	340.3	339.0	337.2	335.4	333.2
20°	338.0	337.8	337.2	336.3	334.9	334.3	333.4	331.7	329.5	327.2	324.9
22.5°	328.7	328.3	327.5	326.7	325.4	324.5	323.7	321.3	318.8	316.4	314.2
25°	316.7	316.3	315.2	314.2	312.9	311.3	310.5	308.6	306.1	303.1	299.8
27.5°	301.3	299.9	299.5	298.4	296.4	295.8	294.7	292.3	289.9	287.3	284.5
30°	281.2	281.2	280.4	279.9	278.1	277.5	276.2	273.7	272.4	268.7	266.6
32.5°	260.0	259.7	259.1	258.7	257.6	256.7	255.4	254.1	251.2	249.3	246.4
35°	238.1	236.5	236.8	236.0	235.3	234.3	234.1	232.7	230.1	229.0	226.4
37.5°	213.2	212.5	213.4	212.3	211.6	211.7	210.7	209.8	208.7	206.9	206.3
40°	190.6	191.2	191.0	190.0	190.5	189.8	188.8	187.9	187.3	186.2	185.8
42.5°	170.5	169.7	169.4	169.4	169.5	169.5	169.0	168.4	168.4	167.2	166.0
45°	151.5	151.5	151.2	152.0	150.8	150.8	150.4	150.3	149.8	149.5	148.1
47.5°	135.1	135.0	134.9	134.7	134.6	134.6	133.8	133.2	133.0	132.2	131.4
50°	119.7	120.5	120.2	119.6	119.3	119.4	118.9	118.5	118.4	117.1	117.2
52.5°	106.8	106.7	106.9	106.5	105.9	106.0	105.5	104.9	104.4	103.8	103.2
55°	94.0	94.7	94.4	94.0	93.9	93.6	93.2	92.6	92.4	91.0	90.8
57.5°	83.3	83.2	82.9	82.3	82.1	81.7	81.7	81.2	80.4	79.6	79.0
60°	72.9	72.9	72.5	72.4	71.9	71.7	71.6	71.1	70.1	69.5	68.4
62.5°	62.9	63.2	62.9	62.5	62.1	61.6	61.3	60.9	60.1	59.5	58.5
65°	54.1	53.9	53.8	53.3	53.1	52.6	52.5	51.7	50.9	50.4	49.3
67.5°	45.6	45.2	45.2	45.0	44.7	44.3	44.0	43.2	42.3	41.8	40.7
70°	37.6	37.3	37.3	37.3	36.7	36.3	36.1	35.7	34.4	33.9	32.8
72.5°	30.2	30.1	29.9	29.5	29.1	29.1	28.6	27.8	27.2	26.5	25.7
75°	23.1	23.3	23.1	22.5	22.4	22.1	21.8	21.1	20.4	19.6	18.7
77.5°	16.9	16.6	16.3	16.3	16.1	15.6	15.4	14.9	14.1	13.6	12.7
80°	11.1	10.9	10.7	10.4	10.3	10.2	10.0	9.5	8.7	8.3	7.5
82.5°	6.1	5.9	5.9	5.8	5.4	5.4	5.3	4.7	4.4	4.1	3.7
85°	2.1	2.1	2.1	2.0	2.0	2.0	1.8	1.7	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



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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8
2.5°	343.3	343.0	342.9	342.8	342.7	342.5	342.4	342.1	342.0	341.9	341.6
5°	343.3	342.8	342.5	342.1	341.9	341.6	341.2	340.8	340.4	340.0	339.6
7.5°	342.8	342.0	341.5	340.7	340.4	340.0	339.2	338.7	338.0	337.2	336.3
10°	341.5	340.5	339.5	338.4	338.0	337.4	336.3	335.4	334.3	333.3	332.4
12.5°	339.4	337.9	336.6	335.1	334.3	333.7	332.2	330.9	329.6	328.4	326.8
15°	336.2	334.5	332.8	330.8	329.9	329.1	327.0	325.4	323.3	321.7	320.1
17.5°	331.0	328.4	326.3	323.8	322.5	321.6	319.7	317.2	315.2	313.5	311.7
20°	322.2	319.7	316.8	314.0	312.6	311.4	308.8	306.1	304.2	302.3	300.3
22.5°	310.6	307.5	305.3	301.9	300.7	299.3	296.1	293.7	291.5	289.7	287.8
25°	296.5	293.7	290.8	287.7	286.2	284.5	281.9	279.4	277.9	275.8	273.6
27.5°	280.3	278.1	274.5	271.7	270.3	269.0	266.4	264.2	262.1	260.6	258.5
30°	263.2	260.5	257.4	254.5	253.7	252.1	249.8	248.1	245.9	245.0	244.0
32.5°	244.3	241.3	238.9	237.0	235.5	234.1	233.0	230.2	229.8	227.4	227.2
35°	223.7	222.4	220.2	218.6	217.3	216.3	214.4	213.1	211.6	211.2	210.3
37.5°	204.4	202.8	200.7	199.2	198.3	198.2	196.7	195.9	194.9	194.3	193.3
40°	184.0	183.4	181.5	181.3	179.8	179.7	178.9	178.0	177.1	177.1	177.2
42.5°	165.3	164.5	163.7	162.8	162.0	162.0	161.6	161.4	161.1	160.7	161.4
45°	147.8	146.7	146.2	145.3	145.7	144.9	144.6	144.6	144.2	144.1	145.0
47.5°	131.4	130.3	129.7	129.5	129.5	129.6	128.4	128.8	128.7	128.9	129.3
50°	116.5	115.5	114.7	114.7	114.8	114.3	113.8	114.2	113.8	114.0	115.0
52.5°	102.7	101.6	101.3	101.3	100.5	100.3	100.6	100.1	100.2	100.3	100.9
55°	89.9	89.3	88.6	87.9	88.1	87.8	87.3	87.1	87.4	87.5	88.2
57.5°	78.4	77.5	76.6	76.3	76.1	76.1	75.4	75.3	75.5	74.9	74.9
60°	67.5	67.0	65.8	65.4	65.4	64.7	64.2	64.5	63.8	63.7	63.8
62.5°	57.4	57.0	56.2	55.4	55.1	54.8	54.2	53.9	53.7	53.1	52.3
65°	48.5	47.6	46.7	46.1	45.7	45.1	44.7	44.2	43.4	43.1	42.3
67.5°	39.7	38.8	37.8	37.4	37.0	36.7	36.0	35.3	34.4	33.4	32.4
70°	31.9	30.7	30.2	29.1	28.9	28.3	27.4	26.8	25.8	24.7	23.7
72.5°	24.4	23.6	22.8	21.9	21.2	20.8	20.0	19.0	17.9	17.3	16.3
75°	17.5	17.1	16.1	15.0	14.8	14.2	13.3	12.7	11.9	10.8	10.0
77.5°	11.9	11.1	10.4	9.5	9.2	8.7	8.2	7.5	7.0	6.3	5.8
80°	7.0	6.3	5.9	5.3	5.0	4.7	4.4	3.8	3.4	3.2	3.0
82.5°	3.4	2.9	2.8	2.4	2.2	2.1	1.8	1.7	1.5	1.5	1.5
85°	1.2	0.9	0.9	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°	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8
2.5°	341.5	341.3	341.2	341.1	341.1	340.9	340.9	340.8	340.8	340.7	340.7
5°	339.1	338.7	338.4	338.2	338.2	337.8	337.5	337.2	337.1	337.1	336.9
7.5°	335.8	335.3	334.7	334.3	334.2	333.6	333.0	333.0	332.5	332.2	332.0
10°	331.4	330.5	329.7	329.3	328.8	328.4	327.8	327.4	327.0	326.3	326.2
12.5°	325.5	324.9	323.7	323.1	322.9	322.1	321.0	320.5	320.4	319.8	319.4
15°	318.8	317.3	316.3	315.6	315.6	314.3	313.8	313.0	312.5	312.1	311.9
17.5°	310.1	308.6	307.6	306.7	306.4	305.3	304.5	304.3	303.6	303.9	303.2
20°	298.9	297.7	296.9	295.7	295.7	295.1	294.8	294.1	293.9	293.6	293.9
22.5°	286.9	285.4	284.1	284.0	284.0	283.1	282.9	282.8	282.3	282.7	282.5
25°	272.8	271.7	270.9	270.8	270.8	270.3	269.7	270.0	270.4	270.3	270.7
27.5°	258.1	257.1	256.8	256.7	256.4	256.3	256.6	256.6	257.0	257.5	258.0
30°	242.3	242.1	241.7	241.5	241.3	241.9	242.2	242.6	242.5	243.2	243.8
32.5°	226.5	226.0	225.8	226.1	226.5	226.4	227.2	227.4	227.7	228.6	229.0
35°	210.5	210.4	210.2	210.2	210.3	211.3	211.3	212.3	212.8	213.1	214.1
37.5°	193.4	193.9	194.2	194.6	194.7	195.1	195.4	196.3	196.8	197.4	197.9
40°	177.7	177.5	178.6	177.9	178.1	179.3	179.8	179.7	180.5	181.3	181.8
42.5°	161.0	161.4	161.6	161.9	162.6	162.7	163.3	164.3	164.5	165.5	165.7
45°	144.8	144.9	145.4	145.9	146.3	147.4	147.7	148.1	148.8	148.8	149.2
47.5°	129.5	130.0	130.0	130.8	131.4	131.3	132.2	132.5	132.4	133.0	133.3
50°	114.8	115.6	115.5	116.0	116.3	116.4	117.2	117.5	116.9	117.6	117.7
52.5°	100.9	101.3	101.8	101.9	101.6	102.3	102.0	102.6	102.4	103.0	102.4
55°	88.1	87.9	87.9	88.2	87.9	88.2	88.5	87.9	87.5	88.1	87.9
57.5°	75.3	75.3	75.0	75.4	75.0	74.6	74.5	74.1	73.7	73.7	73.6
60°	63.3	63.0	62.5	62.4	62.4	61.7	61.4	60.9	60.9	60.4	59.9
62.5°	52.1	51.4	51.0	51.0	50.8	50.1	48.9	48.1	47.9	47.1	46.9
65°	41.5	40.9	40.5	39.7	39.0	38.8	37.6	36.7	36.3	35.5	35.6
67.5°	31.9	30.9	29.7	29.1	28.7	27.8	27.4	26.8	26.4	26.4	26.4
70°	22.9	22.0	20.8	20.4	20.2	19.4	19.0	18.9	19.2	19.1	19.2
72.5°	15.4	14.5	14.0	13.7	13.4	13.1	13.3	13.4	13.2	13.3	13.4
75°	9.4	9.1	8.7	8.6	8.6	8.7	8.6	8.6	8.7	8.7	8.8
77.5°	5.4	5.1	5.1	5.0	5.3	5.1	5.1	5.1	5.3	5.3	5.3
80°	2.9	2.9	2.9	2.9	3.0	2.9	3.0	3.0	3.0	3.0	3.0
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: P859626

CATALOG NUMBER: LX4C08D010 EX4C089027 4LBLWWH

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	342.8	342.8	342.8	342.8	342.8	342.8	342.8	342.8
2.5°	340.4	340.4	340.4	340.1	340.3	340.3	340.1	340.1
5°	336.7	336.6	336.3	336.3	336.1	336.3	336.2	336.3
7.5°	331.7	331.7	331.3	331.3	331.2	331.0	330.9	331.0
10°	325.8	325.8	325.5	325.4	325.5	325.0	325.0	324.9
12.5°	319.2	318.9	318.7	318.8	318.7	318.3	318.1	318.3
15°	311.5	311.1	311.3	310.9	310.9	310.7	311.0	311.0
17.5°	303.1	302.8	302.6	302.7	302.4	302.6	302.4	302.3
20°	293.7	293.6	293.6	293.1	293.2	293.1	293.2	293.6
22.5°	282.9	282.8	282.9	282.5	282.8	282.8	283.2	283.2
25°	271.1	270.9	271.2	271.3	271.5	271.9	271.5	271.6
27.5°	257.9	258.3	258.7	258.8	259.3	258.9	258.7	259.1
30°	244.6	244.6	244.4	245.0	245.4	245.7	245.1	245.1
32.5°	229.3	229.9	229.9	230.1	230.5	230.5	230.5	231.0
35°	214.6	215.0	215.2	214.6	214.9	214.8	215.7	215.7
37.5°	198.3	198.3	198.4	199.3	199.3	198.9	199.2	199.2
40°	182.7	182.9	182.3	182.6	183.3	183.0	183.3	183.5
42.5°	165.7	166.6	166.1	166.4	166.2	166.4	166.5	166.5
45°	149.5	149.8	149.8	149.9	150.2	150.4	149.6	149.5
47.5°	133.7	133.8	134.2	133.6	134.3	133.6	134.3	133.4
50°	117.7	118.3	117.9	118.1	117.7	117.7	117.6	117.5
52.5°	102.6	102.4	102.4	102.3	102.3	102.6	102.3	102.7
55°	87.4	87.5	87.3	87.1	87.0	87.4	87.0	86.8
57.5°	73.0	73.3	72.8	73.0	72.1	72.5	72.6	72.8
60°	59.7	59.3	59.3	58.8	58.8	59.2	58.7	58.7
62.5°	46.3	46.5	46.1	46.7	46.7	47.2	46.9	47.2
65°	35.5	35.6	35.7	35.7	35.7	36.5	36.3	35.9
67.5°	26.8	26.9	27.0	26.9	27.3	27.0	27.0	27.2
70°	19.4	19.5	19.6	19.6	19.5	19.6	19.6	19.6
72.5°	13.4	13.6	13.4	13.6	13.7	13.6	13.6	13.7
75°	8.8	8.8	8.7	8.7	8.7	8.7	8.8	8.7
77.5°	5.1	5.3	5.1	5.3	5.3	5.3	5.3	5.3
80°	3.0	3.0	3.0	2.9	3.0	3.0	3.0	2.9
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)