

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: P859717

Luminaire Tested: **LX4C08D010 EX4C089050 4LBLWW***

Issue Date: 2/9/2022



Test Information

Test Method: LM-79-08
Report Number: P859717
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: LX4C08D010 EX4C089050 4LBLWW*
Description: 4 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS AND 4LRLWW TRIM WITH * FINISH
Light Source: -
Ballast/Driver: -

Summary

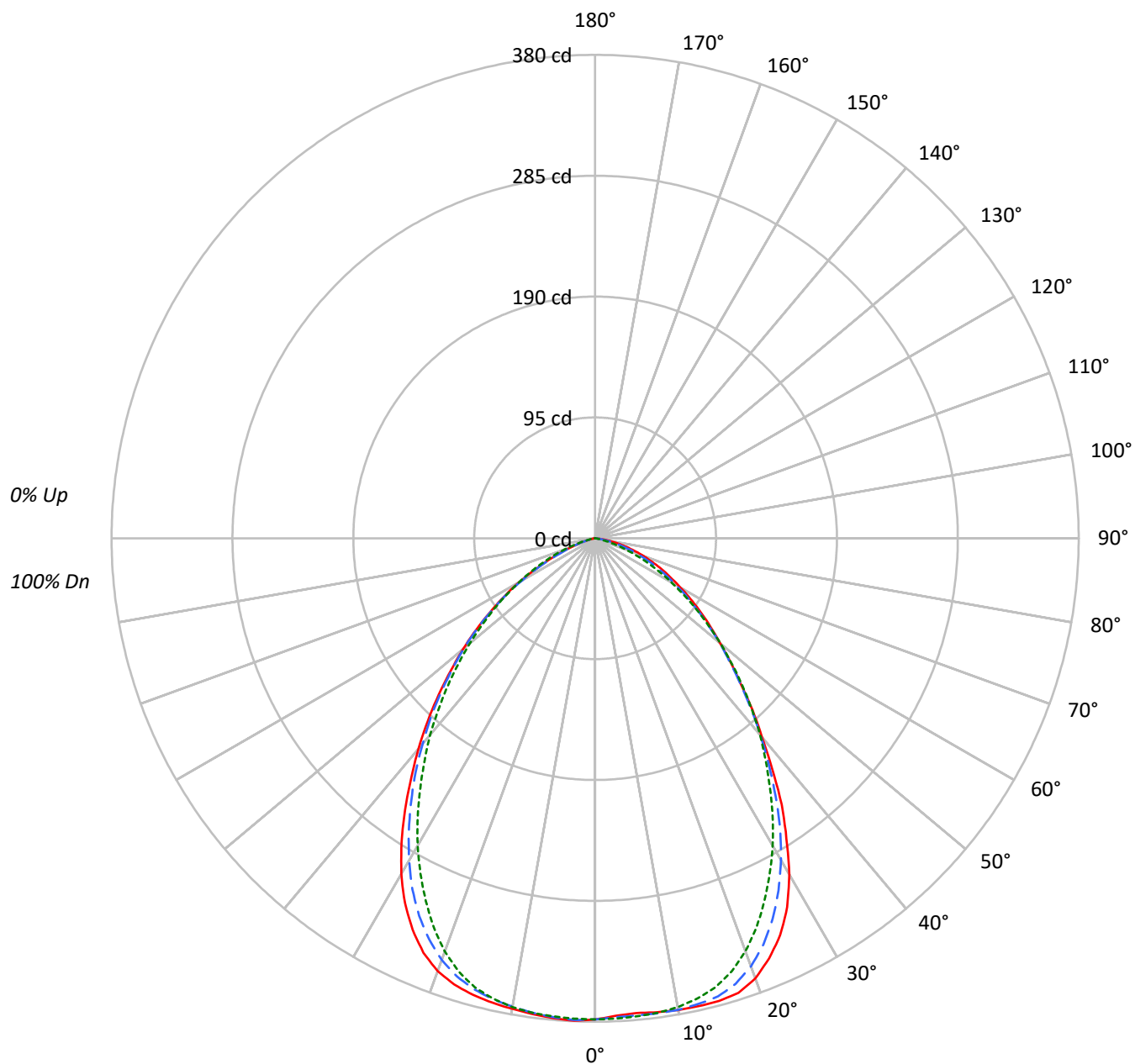
Lumens per Lamp: N/A
Luminaire Lumens: 725.0 lumens
Efficiency: N/A
Efficacy: 73.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.12 / 1.18
Luminous Opening: Circular (Dia: 0.33' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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
RCR																					
0	119	119	119	119		116	116	116	116		111	111	111		106	106	106		102	102	102
1	111	107	104	101		109	105	102	99		101	99	96		97	95	93		94	92	91
2	103	96	91	86		101	95	89	85		91	87	83		88	84	81		85	82	80
3	95	87	80	74		93	85	79	74		82	77	72		80	75	71		77	73	70
4	88	78	71	65		86	77	70	65		75	69	64		72	67	63		70	66	62
5	82	71	63	57		80	70	63	57		68	61	57		66	60	56		64	59	55
6	76	65	57	51		75	64	56	51		62	56	51		61	55	50		59	54	50
7	71	59	51	46		70	59	51	46		57	50	46		56	50	45		54	49	45
8	67	55	47	42		65	54	47	42		53	46	41		52	46	41		50	45	41
9	63	51	43	38		61	50	43	38		49	42	38		48	42	38		47	41	37
10	59	47	40	35		58	46	39	35		45	39	35		45	39	35		44	38	34

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	46463	46463	46463
5°	46197	46517	46690
10°	46968	46681	46856
15°	47886	46474	47250
20°	48125	45170	47327
25°	46644	42659	46007
30°	43295	39579	43210
35°	38334	35904	39054
40°	32684	32331	34641
45°	28077	28389	30179
50°	24502	24560	25859
55°	21654	20733	21440
60°	18993	16929	16855
65°	16802	13139	11686
70°	14332	9016	6933
75°	11582	4842	3180
80°	7924	1203	778
85°	2396	423	423



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	5.0
10°-20°	104.0	14.4
20°-30°	150.3	20.7
30°-40°	155.4	21.4
40°-50°	128.4	17.7
50°-60°	88.6	12.2
60°-70°	46.4	6.4
70°-80°	14.6	2.0
80°-90°	1.2	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°	290.3	40.0
0°-40°	445.7	61.5
0°-60°	662.8	91.4
0°-90°	725.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	725.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	378	378	378	378	378	
5°	375	376	377	378	379	36
15°	376	373	365	367	372	106
25°	344	330	315	327	339	157
35°	256	247	239	252	260	159
45°	162	161	163	171	174	126
55°	101	98	97	100	100	91
65°	58	52	45	38	40	57
75°	24	19	10	7	7	26
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°	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2
2.5°	375.7	375.9	375.9	376.2	376.2	376.2	376.3	376.3	376.5	376.6	376.7
5°	374.6	374.6	374.9	375.0	375.3	375.5	375.7	375.9	376.2	376.3	376.5
7.5°	375.7	375.7	375.9	376.0	376.0	376.2	376.2	376.3	376.5	376.6	376.6
10°	376.5	376.5	376.5	376.5	376.6	376.6	376.6	376.5	376.5	376.5	376.3
12.5°	376.7	376.7	376.6	376.5	376.6	376.5	376.5	376.0	375.7	375.5	375.0
15°	376.5	376.5	376.3	376.2	376.0	375.7	375.6	374.9	374.3	373.5	372.9
17.5°	374.6	374.3	374.0	373.8	373.2	372.8	372.5	371.2	370.2	368.8	367.2
20°	368.1	367.8	367.4	366.7	365.9	365.4	364.5	362.7	361.7	359.6	358.0
22.5°	357.4	357.1	357.3	356.0	354.6	353.7	353.2	351.6	349.9	347.2	345.5
25°	344.1	343.2	343.2	341.2	340.5	340.0	339.2	337.4	334.8	332.4	330.2
27.5°	326.8	325.6	325.0	324.8	323.1	321.8	320.8	319.4	317.2	315.1	312.0
30°	305.2	305.0	304.3	303.0	301.8	301.2	300.1	297.6	295.7	294.1	292.1
32.5°	279.7	279.6	279.6	279.6	278.8	278.6	276.9	275.6	274.1	271.7	270.4
35°	255.6	255.5	255.6	253.5	252.9	252.5	252.3	251.5	249.4	248.2	247.1
37.5°	228.3	228.8	228.5	227.9	228.6	227.3	228.3	226.5	225.6	225.4	224.1
40°	203.8	204.9	203.8	203.9	204.6	203.4	203.4	203.1	202.5	202.2	201.9
42.5°	182.8	181.3	182.2	181.5	182.2	181.8	181.1	181.5	181.6	181.1	180.9
45°	161.6	161.9	162.2	161.7	161.7	161.3	162.5	161.7	161.7	161.9	160.9
47.5°	144.4	144.0	144.3	144.0	144.1	143.9	144.1	144.3	144.0	144.0	143.1
50°	128.2	127.9	128.9	128.1	128.1	127.9	128.1	127.8	127.4	127.4	127.7
52.5°	114.2	113.6	113.5	114.2	113.2	113.2	113.3	113.0	112.5	112.2	111.5
55°	101.1	101.0	101.1	100.5	100.3	100.3	99.5	99.3	99.1	98.4	98.0
57.5°	88.9	88.5	88.6	88.5	87.9	87.8	87.2	87.2	86.6	86.1	85.3
60°	77.3	77.3	77.7	77.1	76.7	76.4	76.1	75.8	74.8	73.8	73.0
62.5°	66.9	67.0	66.9	66.5	66.2	65.9	65.6	64.8	63.9	63.3	62.3
65°	57.8	57.7	57.2	56.9	56.2	56.2	55.7	55.2	54.2	53.4	52.4
67.5°	48.4	48.1	48.1	48.1	47.3	47.1	46.9	46.0	45.2	44.0	43.2
70°	39.9	40.2	39.8	39.3	38.9	38.8	38.3	37.5	36.5	35.4	34.6
72.5°	31.8	32.1	31.7	31.5	30.7	30.4	30.2	29.5	28.4	27.7	26.6
75°	24.4	24.6	24.3	24.0	23.4	23.3	22.6	22.0	21.3	20.2	19.2
77.5°	17.6	17.3	17.3	16.8	16.2	16.2	16.0	15.2	14.2	13.3	12.5
80°	11.2	11.1	10.7	10.4	9.9	9.8	9.7	8.9	8.2	7.7	7.1
82.5°	5.7	5.5	5.4	5.3	5.0	4.7	4.8	4.3	4.0	3.4	3.0
85°	1.7	1.8	1.8	1.7	1.6	1.6	1.6	1.4	1.1	1.0	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°	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2
2.5°	376.9	377.0	377.2	377.3	377.3	377.4	377.6	377.7	377.9	377.9	378.0
5°	376.6	376.9	376.9	377.0	377.0	377.0	377.2	377.2	377.2	377.2	377.3
7.5°	376.7	376.7	376.7	376.6	376.6	376.5	376.5	376.5	376.2	376.2	376.2
10°	376.0	375.9	375.7	375.5	375.3	375.2	374.9	374.6	374.3	374.2	373.9
12.5°	374.6	374.0	373.5	372.9	372.6	372.5	371.9	371.5	371.1	370.6	370.3
15°	371.8	370.9	369.9	368.8	368.5	368.2	367.2	366.4	365.8	365.4	364.7
17.5°	366.1	364.4	363.2	361.5	360.8	360.6	359.0	358.1	357.1	356.9	356.3
20°	356.0	354.4	352.3	350.8	349.9	349.0	347.8	346.6	345.5	345.5	344.8
22.5°	343.4	341.4	338.7	336.7	336.6	334.8	333.7	332.4	332.0	331.2	331.2
25°	327.5	325.8	322.8	321.1	320.2	319.8	317.9	316.2	315.4	314.7	315.3
27.5°	309.9	307.3	305.0	302.9	302.2	301.3	299.6	298.9	297.4	297.2	297.1
30°	289.7	287.1	284.9	283.9	282.4	281.7	280.5	279.6	279.0	279.0	278.8
32.5°	268.5	266.3	265.1	263.0	262.3	261.3	260.4	259.6	259.9	259.6	259.7
35°	245.7	245.1	243.0	241.7	241.7	241.6	240.1	239.6	239.3	239.4	240.1
37.5°	223.9	222.2	220.8	220.0	220.7	219.8	219.7	219.7	220.5	220.0	221.1
40°	200.8	200.7	200.1	200.4	200.5	199.5	199.8	199.9	200.5	201.6	201.8
42.5°	180.6	180.5	180.5	180.5	180.2	179.6	180.2	181.2	181.1	181.9	182.6
45°	161.2	160.9	161.5	161.0	161.9	162.2	161.7	162.0	162.9	163.4	164.6
47.5°	143.4	143.4	143.6	143.9	143.0	143.7	144.0	144.6	145.0	145.3	145.8
50°	127.0	127.0	126.7	126.7	126.7	127.1	126.5	127.2	127.4	128.5	129.2
52.5°	111.8	111.0	111.5	111.2	110.6	110.3	110.6	110.8	111.6	111.9	112.8
55°	97.3	97.3	96.1	95.9	96.3	96.1	96.0	96.0	96.4	96.8	97.6
57.5°	84.5	83.6	82.8	82.6	82.2	82.4	82.4	82.2	81.9	82.1	82.2
60°	72.4	71.9	70.6	70.6	70.4	70.3	69.6	69.4	68.7	68.9	68.3
62.5°	61.3	61.1	59.4	58.8	58.8	58.4	57.7	57.5	56.5	56.5	55.9
65°	51.4	50.6	49.6	48.6	48.6	48.0	47.6	46.3	45.6	45.2	44.3
67.5°	42.3	41.0	40.0	39.2	38.6	38.5	37.5	36.6	35.5	34.8	33.5
70°	33.5	32.5	31.5	30.7	30.1	29.5	28.5	27.3	26.4	25.1	24.3
72.5°	25.3	24.4	23.6	22.4	21.7	21.3	20.3	19.2	17.8	16.9	15.8
75°	18.2	17.2	16.0	15.1	14.6	14.2	13.1	12.2	11.2	10.2	9.1
77.5°	11.8	10.7	9.8	8.7	8.5	8.2	7.1	6.2	5.5	5.0	4.3
80°	6.2	5.7	5.0	4.3	4.0	3.6	3.0	2.6	2.1	1.7	1.4
82.5°	2.7	2.3	1.8	1.6	1.4	1.3	1.0	0.9	0.7	0.7	0.6
85°	0.7	0.6	0.6	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.3
87.5°	0.0	0.0	0.0	0.0	0.1	0.1	0.1	0.0	0.1	0.1	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°	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2
2.5°	378.2	378.3	378.4	378.4	378.6	378.7	378.7	378.9	379.0	379.2	379.2
5°	377.4	377.4	377.4	377.6	377.6	377.6	377.6	377.9	377.9	378.0	378.2
7.5°	376.0	376.0	376.0	376.0	375.9	376.0	375.9	375.9	376.2	376.3	376.5
10°	373.8	373.6	373.6	373.5	373.5	373.5	373.6	373.8	373.9	374.0	374.5
12.5°	370.2	370.1	370.1	369.9	369.9	370.1	370.2	370.5	371.1	371.3	371.9
15°	364.5	364.4	364.5	364.7	365.0	365.4	365.8	366.2	367.1	367.8	368.5
17.5°	356.3	356.4	356.6	356.9	357.3	357.9	359.0	360.1	361.1	362.3	363.4
20°	344.9	345.5	345.6	346.6	346.9	348.2	349.5	351.2	352.7	354.2	355.7
22.5°	331.3	331.7	332.3	333.4	334.1	335.8	337.4	339.4	341.1	342.9	345.2
25°	315.8	316.0	317.7	317.7	319.4	320.8	322.6	324.8	327.3	329.7	331.3
27.5°	298.2	298.9	300.2	300.8	302.0	304.3	305.9	308.4	311.0	313.1	314.8
30°	279.7	280.3	282.4	282.7	283.7	285.7	287.8	290.3	292.2	294.7	296.2
32.5°	260.3	261.9	263.1	264.1	264.4	267.4	268.5	270.2	272.5	274.9	276.5
35°	241.4	242.1	244.0	244.5	245.4	247.1	249.4	250.8	251.9	253.5	255.3
37.5°	221.4	223.5	223.9	225.6	225.9	227.5	228.6	230.3	231.8	233.2	233.5
40°	202.8	203.5	205.1	205.5	205.8	207.9	209.3	209.7	210.5	211.7	213.4
42.5°	183.9	184.6	186.3	185.9	187.2	188.2	188.9	190.6	191.3	191.7	191.7
45°	165.3	165.6	166.7	167.3	168.0	168.6	169.8	170.7	171.0	172.3	172.7
47.5°	147.5	147.8	148.7	149.7	149.4	150.1	151.5	151.9	152.1	152.9	153.4
50°	130.1	130.8	131.9	131.6	132.5	132.9	134.2	134.5	134.5	134.6	134.8
52.5°	113.7	114.3	114.6	114.9	115.3	116.0	116.6	116.3	116.9	117.4	117.0
55°	97.6	98.0	98.7	99.0	99.0	99.1	98.8	100.1	99.5	99.4	99.5
57.5°	82.8	82.2	82.1	82.8	83.1	82.9	82.5	83.1	83.1	82.8	82.4
60°	68.4	68.0	67.9	68.0	67.5	67.0	67.3	67.0	66.3	66.0	66.2
62.5°	55.4	55.0	53.8	53.8	53.5	53.4	52.3	52.4	51.8	51.0	51.3
65°	43.3	42.2	41.6	41.5	40.5	39.6	39.3	38.3	37.5	37.3	37.5
67.5°	32.5	31.2	30.2	29.8	29.3	28.5	27.5	26.7	27.0	26.8	27.4
70°	22.6	21.7	20.7	20.0	20.3	19.5	18.9	18.9	19.0	19.2	19.5
72.5°	15.1	13.9	13.5	13.1	12.8	12.2	12.5	12.5	12.4	12.5	12.2
75°	8.5	8.0	7.5	7.4	7.1	7.1	7.1	7.1	7.0	6.8	6.8
77.5°	3.8	3.6	3.4	3.3	3.3	3.3	3.1	3.0	3.0	3.0	2.8
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
82.5°	0.6	0.6	0.7	0.7	0.7	0.6	0.7	0.7	0.6	0.6	0.7
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°	0.1	0.1	0.1	0.0	0.1	0.1	0.1	0.1	0.0	0.1	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



TEST NUMBER: P859717

CATALOG NUMBER: LX4C08D010 EX4C089050 4LBLWW*

CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	378.2	378.2	378.2	378.2	378.2	378.2	378.2	378.2
2.5°	379.3	379.4	379.4	379.4	379.6	379.6	379.6	379.6
5°	378.3	378.4	378.4	378.4	378.6	378.6	378.6	378.6
7.5°	376.6	376.7	376.7	376.9	376.9	377.0	377.0	377.2
10°	374.6	374.9	375.0	375.2	375.3	375.5	375.5	375.6
12.5°	372.5	372.8	372.9	373.2	373.5	373.6	373.8	373.9
15°	369.4	369.9	370.2	370.3	370.9	371.2	371.3	371.5
17.5°	364.4	365.5	365.9	366.2	366.8	367.4	367.8	367.9
20°	357.3	358.6	359.1	359.8	360.7	361.4	361.7	362.0
22.5°	347.3	348.8	349.6	350.5	351.2	351.9	353.0	352.6
25°	333.1	335.6	336.6	337.0	338.5	339.4	340.0	339.4
27.5°	317.2	318.7	319.5	320.5	321.6	322.5	322.8	323.6
30°	298.1	300.5	300.3	301.3	302.8	303.6	303.9	304.6
32.5°	278.2	279.3	280.2	280.0	280.6	282.2	281.6	282.9
35°	257.0	257.2	258.6	258.4	259.6	259.6	259.6	260.4
37.5°	234.4	236.2	235.4	237.1	236.6	237.0	237.0	237.3
40°	213.9	214.4	214.4	215.0	215.4	215.0	215.3	216.0
42.5°	192.6	193.1	193.3	193.0	193.4	194.7	193.7	194.5
45°	172.7	173.1	173.7	173.2	174.0	173.5	174.0	173.7
47.5°	153.9	153.8	153.6	154.8	153.8	153.9	154.5	153.5
50°	134.8	135.6	135.0	135.5	135.8	135.8	135.3	135.3
52.5°	117.7	117.6	117.2	117.6	117.3	117.4	117.7	117.4
55°	100.1	100.7	100.4	100.3	100.4	100.4	101.2	100.1
57.5°	82.8	82.5	82.9	83.9	82.9	83.6	84.1	84.2
60°	66.3	66.3	67.2	66.7	67.6	68.3	68.9	68.6
62.5°	50.6	51.3	51.5	51.7	52.5	53.1	53.1	53.0
65°	37.5	38.5	38.5	39.1	39.3	39.3	39.6	40.2
67.5°	27.7	27.7	27.8	28.1	28.0	28.0	28.3	28.4
70°	19.3	19.0	19.5	19.3	19.3	19.2	19.3	19.3
72.5°	12.2	12.2	12.4	12.2	11.9	12.1	12.1	12.4
75°	6.5	6.8	6.5	6.5	6.7	6.4	6.5	6.7
77.5°	2.7	2.7	2.7	2.7	2.7	2.6	2.6	2.6
80°	1.3	1.3	1.3	1.3	1.3	1.3	1.1	1.1
82.5°	0.6	0.7	0.6	0.7	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	0.1	0.0	0.1	0.0	0.0	0.0	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)