

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: P563982

Luminaire Tested: **LX6C08D010 EX6C089030 6LBLWWH**

Issue Date: 2/15/2022

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P563982
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2107-320-10)
Test Lab: INNOVATION CENTER
Issue Date: 2/15/2022
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LX6C08D010 EX6C089030 6LBLWWH
Description: 6 INCH 800 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS AND 6LRLWW TRIM WITH H FINISH, DIM TO WARM
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

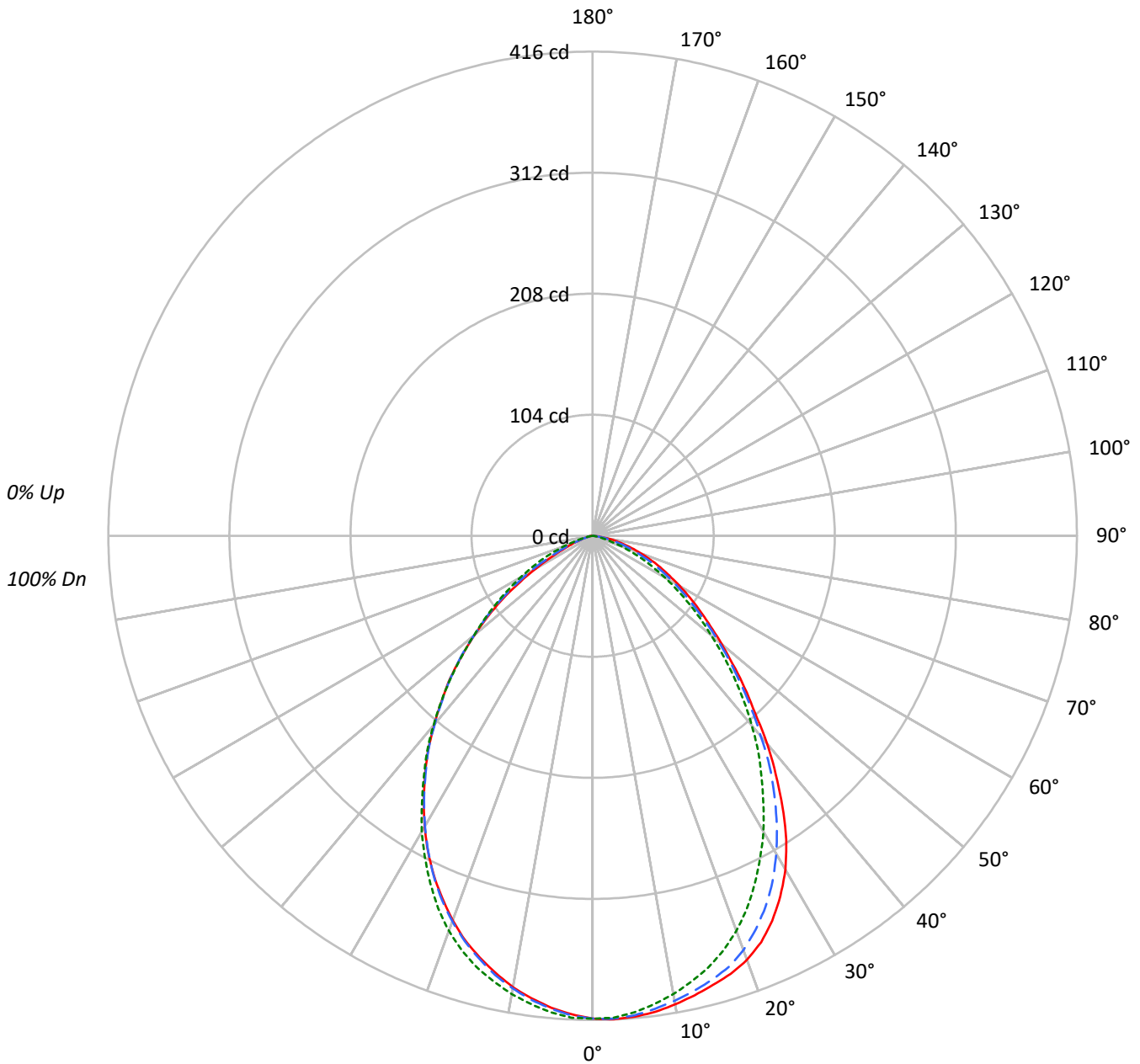
Lumens per Lamp: N/A
Luminaire Lumens: 754.7 lumens
Efficiency: N/A
Efficacy: 76.2 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.9
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									
RC	80									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	109	105	102	99	101	99	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	90	85	91	87	83	88	85	81	85	82	80	78																			
3	95	87	80	74	93	85	79	74	82	77	73	80	75	71	77	73	70	68																			
4	89	78	71	65	86	77	70	65	75	69	64	72	67	63	70	66	62	60																			
5	82	71	63	58	80	70	63	57	68	62	57	66	61	56	64	60	56	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	71	59	52	46	70	59	51	46	57	51	46	56	50	45	55	49	45	43																			
8	67	55	47	42	65	54	47	42	53	46	42	52	46	41	51	45	41	39																			
9	63	51	43	38	62	50	43	38	49	42	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	39	35	45	39	35	44	38	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	22745	22745	22745
5°	22826	22623	22397
10°	22756	22255	21927
15°	22673	21794	21283
20°	22624	21072	20512
25°	22072	19943	19507
30°	20972	18579	18269
35°	19033	16918	16798
40°	16696	15221	15143
45°	14312	13304	13404
50°	12324	11334	11275
55°	10771	9577	8984
60°	9473	7839	6129
65°	8289	6084	3697
70°	7052	4087	2164
75°	5719	2139	1186
80°	3946	821	663
85°	1572	252	314



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.9	5.2
10°-20°	108.6	14.4
20°-30°	154.5	20.5
30°-40°	162.6	21.5
40°-50°	135.5	18.0
50°-60°	91.6	12.1
60°-70°	46.4	6.2
70°-80°	15.0	2.0
80°-90°	1.7	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°	302.0	40.0
0°-40°	464.6	61.6
0°-60°	691.6	91.6
0°-90°	754.7	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	754.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	415	415	415	415	415	
5°	415	414	411	408	407	39
15°	400	395	384	376	375	113
25°	365	352	330	323	322	167
35°	284	272	253	250	251	177
45°	185	180	172	172	173	143
55°	113	107	100	97	94	101
65°	64	58	47	34	28	64
75°	27	21	10	5	6	29
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°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	415.9	415.9	415.9	415.9	415.9	415.9	415.7	415.7	415.5	415.5	415.3
5°	414.8	414.9	414.9	414.8	414.8	414.5	414.5	414.4	414.0	413.7	413.6
7.5°	412.5	412.5	412.3	412.2	412.0	411.6	411.5	411.1	410.7	410.4	409.9
10°	408.8	408.8	408.7	408.4	408.2	408.0	408.0	407.4	406.9	406.2	405.8
12.5°	404.4	404.6	404.3	404.2	403.8	403.6	403.3	402.7	402.2	401.4	400.7
15°	399.5	399.8	399.8	399.1	398.7	398.6	398.2	397.8	396.8	396.0	395.2
17.5°	394.6	394.9	394.6	394.2	393.8	393.1	392.9	392.0	390.8	389.7	388.5
20°	387.8	388.2	387.6	386.9	386.0	385.9	385.5	384.1	382.3	380.6	378.8
22.5°	378.1	377.9	377.4	377.2	375.8	374.9	374.3	372.5	370.6	368.3	366.1
25°	364.9	365.4	364.6	363.3	362.6	361.8	360.4	358.5	356.6	354.3	351.6
27.5°	349.2	349.2	348.1	347.7	346.2	345.0	344.3	342.4	340.0	337.7	334.8
30°	331.3	330.4	330.4	328.5	327.2	326.8	326.1	322.9	320.8	318.3	315.3
32.5°	309.5	309.3	308.8	307.5	305.9	304.4	304.4	302.2	299.5	296.4	294.6
35°	284.4	284.5	284.2	282.9	282.9	281.2	281.0	278.9	276.7	274.3	272.1
37.5°	258.5	259.0	258.5	257.8	257.4	257.1	255.9	254.5	252.9	251.5	249.8
40°	233.3	232.5	232.7	231.4	231.5	231.2	230.7	228.9	227.9	226.5	224.7
42.5°	206.3	207.1	207.4	206.6	206.3	205.7	206.3	205.6	204.5	203.7	202.1
45°	184.6	183.8	184.2	184.0	184.1	183.0	182.6	182.3	181.9	180.7	179.9
47.5°	163.2	163.4	163.2	162.7	162.3	162.3	161.8	160.9	160.9	160.1	159.6
50°	144.5	144.5	144.7	144.0	143.8	143.2	143.4	142.5	142.0	141.3	140.9
52.5°	127.4	127.5	126.9	127.0	126.7	126.7	126.2	125.6	125.1	123.9	123.6
55°	112.7	112.8	112.1	112.4	111.6	111.2	110.9	110.1	110.1	108.8	107.2
57.5°	99.1	98.9	98.8	98.4	97.8	97.3	96.9	95.9	95.5	94.7	93.5
60°	86.4	86.2	86.0	85.7	85.3	84.4	84.4	83.7	82.3	81.5	80.2
62.5°	74.4	74.4	74.2	73.7	73.3	72.9	72.6	72.1	70.7	69.8	68.7
65°	63.9	63.8	63.4	62.7	62.4	62.4	61.3	60.9	59.8	58.9	57.6
67.5°	53.8	53.3	53.0	53.1	52.3	52.3	51.5	50.8	49.8	48.1	47.1
70°	44.0	43.8	43.5	43.2	43.1	42.5	42.1	41.3	40.3	39.1	37.5
72.5°	35.3	35.3	34.9	34.6	34.2	33.6	33.4	32.7	31.5	30.1	29.0
75°	27.0	27.0	27.0	26.3	26.0	25.8	24.9	24.5	23.3	22.5	21.1
77.5°	19.8	19.5	19.1	18.9	18.7	18.4	18.0	17.3	16.2	15.2	14.3
80°	12.5	13.0	12.5	12.5	11.9	11.6	11.4	10.6	10.2	9.4	8.6
82.5°	7.0	7.1	6.8	6.7	6.3	6.1	6.1	5.6	5.3	4.8	4.4
85°	2.5	2.6	2.5	2.5	2.2	2.3	2.2	2.1	1.8	1.5	1.4
87.5°	0.1	0.1	0.1	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	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°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	415.3	415.1	415.1	414.9	414.8	414.8	414.8	414.6	414.4	414.4	414.2
5°	413.3	413.0	412.6	412.3	412.2	412.0	411.9	411.8	411.2	411.1	410.6
7.5°	409.5	409.2	408.5	408.2	407.8	407.7	407.1	406.9	406.3	405.8	405.5
10°	405.0	404.3	403.8	403.1	402.8	402.4	401.7	400.9	400.5	399.8	399.1
12.5°	400.1	399.1	398.0	397.2	396.9	396.2	395.2	394.5	393.5	392.3	391.4
15°	393.8	392.7	391.8	390.3	389.8	389.0	387.9	386.5	385.1	384.0	382.9
17.5°	386.9	385.4	383.8	382.2	380.9	380.5	378.7	376.8	375.4	373.5	372.3
20°	377.3	375.1	372.7	371.0	369.9	368.6	366.5	364.5	362.9	361.2	359.5
22.5°	364.1	362.1	359.2	356.6	355.8	354.0	352.2	350.2	348.3	346.5	344.2
25°	348.4	346.4	343.4	340.9	339.4	338.6	335.2	333.2	331.3	329.7	328.1
27.5°	332.4	328.6	326.6	322.8	321.5	321.2	318.0	315.9	313.8	311.8	309.7
30°	312.6	309.6	306.7	303.9	302.2	301.3	298.9	296.2	294.9	293.5	291.5
32.5°	292.0	289.4	285.8	283.1	281.9	280.4	278.4	276.6	274.4	272.9	272.5
35°	270.2	267.2	264.2	262.2	261.9	260.3	258.2	256.6	255.1	252.8	252.3
37.5°	246.8	245.0	243.0	240.2	238.9	238.9	236.8	235.7	233.8	233.7	232.5
40°	223.7	223.1	219.8	219.0	218.7	216.8	216.2	214.2	212.8	212.7	211.1
42.5°	201.0	199.2	198.7	197.2	195.9	195.7	194.4	193.6	193.1	192.1	191.3
45°	178.4	178.0	176.6	175.6	175.2	174.7	174.2	172.5	172.2	171.6	171.1
47.5°	158.9	157.8	156.4	155.3	155.2	154.4	153.4	153.4	151.9	151.8	151.5
50°	139.5	138.6	137.9	136.4	136.7	135.6	135.4	134.2	133.5	132.9	133.7
52.5°	122.5	120.7	120.5	119.2	118.8	119.0	117.5	117.0	116.8	116.2	115.9
55°	106.3	105.5	104.4	103.4	102.8	102.1	101.5	101.5	100.0	100.2	99.5
57.5°	92.1	91.3	89.9	88.7	88.4	87.6	86.9	86.2	86.1	85.0	84.4
60°	79.3	78.1	76.3	75.8	74.9	74.2	73.5	72.6	72.2	71.5	70.3
62.5°	67.5	65.4	64.7	63.6	62.7	62.3	61.1	60.1	59.4	58.5	57.5
65°	56.3	54.6	53.4	52.2	52.0	50.9	49.9	49.1	47.7	46.9	45.1
67.5°	45.9	44.5	43.1	41.8	40.9	40.6	39.1	38.0	37.1	35.4	33.9
70°	36.4	35.0	33.9	32.3	31.9	30.8	29.7	28.7	27.1	25.5	24.3
72.5°	27.8	26.2	24.9	23.8	23.2	22.2	21.1	19.9	18.3	16.8	15.7
75°	19.8	18.7	17.4	16.3	15.8	15.2	13.9	12.7	11.6	10.1	9.1
77.5°	13.4	12.3	11.2	10.2	9.5	9.1	8.2	7.2	6.3	5.4	4.8
80°	7.8	7.1	6.3	5.4	5.3	4.9	4.2	3.7	3.1	2.6	2.1
82.5°	3.8	3.4	2.7	2.3	2.1	1.9	1.6	1.4	1.1	1.0	1.0
85°	1.1	1.0	0.8	0.7	0.5	0.5	0.4	0.4	0.4	0.4	0.4
87.5°	0.1	0.1	0.1	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	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°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	413.8	413.7	413.6	413.4	413.1	413.1	412.7	412.5	412.5	412.2	412.0
5°	410.2	409.8	409.6	409.3	409.1	408.9	408.4	408.2	408.0	407.7	407.7
7.5°	405.0	404.4	403.9	403.6	403.5	403.1	402.8	402.7	402.2	402.0	401.4
10°	398.2	397.8	397.1	396.8	396.5	396.2	395.6	395.2	395.0	394.7	394.5
12.5°	390.3	389.7	389.0	388.5	388.2	387.8	387.0	386.6	386.6	386.0	386.0
15°	381.8	380.9	379.6	379.1	378.9	378.1	377.6	377.0	376.3	376.1	376.1
17.5°	370.9	369.4	368.3	368.3	367.8	367.0	366.1	365.7	365.3	364.8	364.5
20°	358.1	357.0	355.8	355.8	354.6	354.3	353.5	353.3	352.4	352.5	352.1
22.5°	342.6	342.0	341.3	340.8	340.0	339.2	338.8	338.9	338.5	338.3	338.2
25°	326.9	325.4	324.6	324.3	324.0	323.3	323.1	322.9	322.9	322.5	322.7
27.5°	308.9	307.8	306.7	307.1	306.6	306.2	305.9	305.5	305.8	305.6	305.8
30°	290.5	289.1	288.5	288.7	288.6	287.5	288.0	287.9	288.0	288.0	288.3
32.5°	271.2	270.2	270.1	270.2	268.9	269.0	268.5	269.4	269.5	270.3	269.6
35°	251.5	250.9	249.9	249.8	249.9	249.8	249.8	250.3	250.2	251.0	250.7
37.5°	231.2	231.0	230.0	230.3	229.7	230.7	231.0	230.7	231.7	231.4	231.2
40°	211.5	211.1	210.5	211.6	210.9	210.4	211.3	210.5	210.8	211.6	211.6
42.5°	191.3	190.6	190.6	190.6	190.5	190.5	190.9	191.3	191.1	191.2	192.4
45°	171.1	171.0	170.6	170.9	170.7	171.4	171.4	171.7	172.2	172.8	172.5
47.5°	151.6	151.4	151.8	151.5	151.6	151.2	151.5	152.3	153.0	152.1	153.0
50°	133.4	132.7	132.6	133.0	132.9	132.7	133.0	133.0	132.7	132.7	133.8
52.5°	115.9	115.4	114.9	115.7	115.2	115.4	114.7	114.7	115.0	114.7	114.3
55°	99.6	99.2	98.6	98.9	98.2	98.1	97.4	97.4	97.0	96.8	95.9
57.5°	83.9	83.7	82.4	82.3	82.4	81.5	80.5	80.1	78.9	78.6	78.5
60°	70.2	68.7	67.9	67.1	66.5	66.1	65.0	64.3	62.7	61.6	61.5
62.5°	55.7	55.1	54.2	53.0	52.7	51.4	50.2	48.4	47.6	46.3	45.1
65°	44.2	42.4	41.1	40.5	39.4	38.0	36.8	34.9	33.9	32.3	31.1
67.5°	32.3	30.8	29.2	28.6	27.6	26.0	24.8	23.2	22.3	21.0	20.5
70°	22.2	20.8	19.5	18.7	18.0	16.5	15.2	14.6	13.8	13.5	13.5
72.5°	14.2	13.0	11.6	11.2	10.6	9.8	9.0	8.6	9.0	8.7	8.7
75°	7.9	7.2	6.3	5.9	5.9	5.6	5.4	5.4	5.4	5.4	5.4
77.5°	4.1	3.7	3.4	3.3	3.3	3.3	3.4	3.4	3.4	3.5	3.4
80°	1.9	1.8	1.8	1.8	1.9	1.9	1.9	1.9	1.9	2.1	1.9
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.1	1.1	1.1	1.1	1.1
85°	0.4	0.4	0.4	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	0.1	0.1	0.1	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	414.9	414.9	414.9	414.9	414.9	414.9	414.9	414.9
2.5°	411.9	411.6	411.6	411.5	411.5	411.5	411.5	411.6
5°	407.4	407.3	407.3	407.0	407.0	407.0	407.0	407.0
7.5°	401.4	401.1	401.3	401.0	401.0	401.1	401.0	400.9
10°	394.1	393.9	394.1	394.1	393.8	393.6	393.8	393.9
12.5°	385.6	385.5	385.2	385.4	385.4	385.2	385.1	384.8
15°	375.9	375.8	375.7	375.4	375.3	375.4	375.3	375.0
17.5°	364.5	364.5	364.4	364.2	364.1	363.8	363.9	364.4
20°	352.2	352.1	351.7	351.8	351.3	351.0	351.2	351.6
22.5°	338.1	337.7	337.9	337.5	337.5	337.7	337.5	337.2
25°	322.8	322.1	322.5	322.7	322.7	322.5	322.4	322.5
27.5°	305.8	306.2	306.2	305.9	306.3	305.8	306.0	306.2
30°	288.3	287.9	287.8	288.3	289.1	288.5	288.5	288.6
32.5°	270.3	269.8	269.8	270.1	269.9	269.9	270.5	269.8
35°	251.0	251.4	250.2	250.9	251.1	250.9	251.0	251.0
37.5°	231.7	231.4	231.4	231.4	231.8	231.8	232.1	231.9
40°	212.6	212.0	211.9	212.2	211.6	212.0	212.0	211.6
42.5°	191.9	192.0	192.8	192.0	192.1	192.0	191.7	191.6
45°	172.8	173.2	172.9	172.8	172.9	172.4	172.5	172.9
47.5°	152.6	153.4	152.6	153.2	153.0	152.7	152.5	151.9
50°	133.7	133.9	133.8	133.7	133.5	133.4	132.6	132.2
52.5°	114.2	114.2	114.2	114.2	112.8	113.5	113.2	112.4
55°	95.3	95.7	95.1	95.1	94.2	94.2	93.9	94.0
57.5°	77.0	76.6	76.2	76.2	75.2	74.8	74.4	73.7
60°	60.0	59.5	59.0	58.3	57.4	57.4	57.1	55.9
62.5°	43.9	43.2	42.8	42.2	41.4	40.9	40.5	40.7
65°	30.1	29.4	28.9	28.9	28.9	28.6	28.5	28.5
67.5°	19.8	20.2	19.9	20.2	20.2	19.9	19.8	20.0
70°	13.6	13.6	13.5	13.5	13.5	13.5	13.4	13.5
72.5°	8.7	8.7	8.7	9.0	8.7	8.7	9.0	9.0
75°	5.6	5.6	5.6	5.7	5.6	5.6	5.7	5.6
77.5°	3.4	3.5	3.5	3.5	3.5	3.4	3.5	3.5
80°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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)