

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: P683928

Luminaire Tested: **LX6C10D010 EX6C109050 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: P683928
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: LX6C10D010 EX6C109050 6LBLWWH
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 5000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

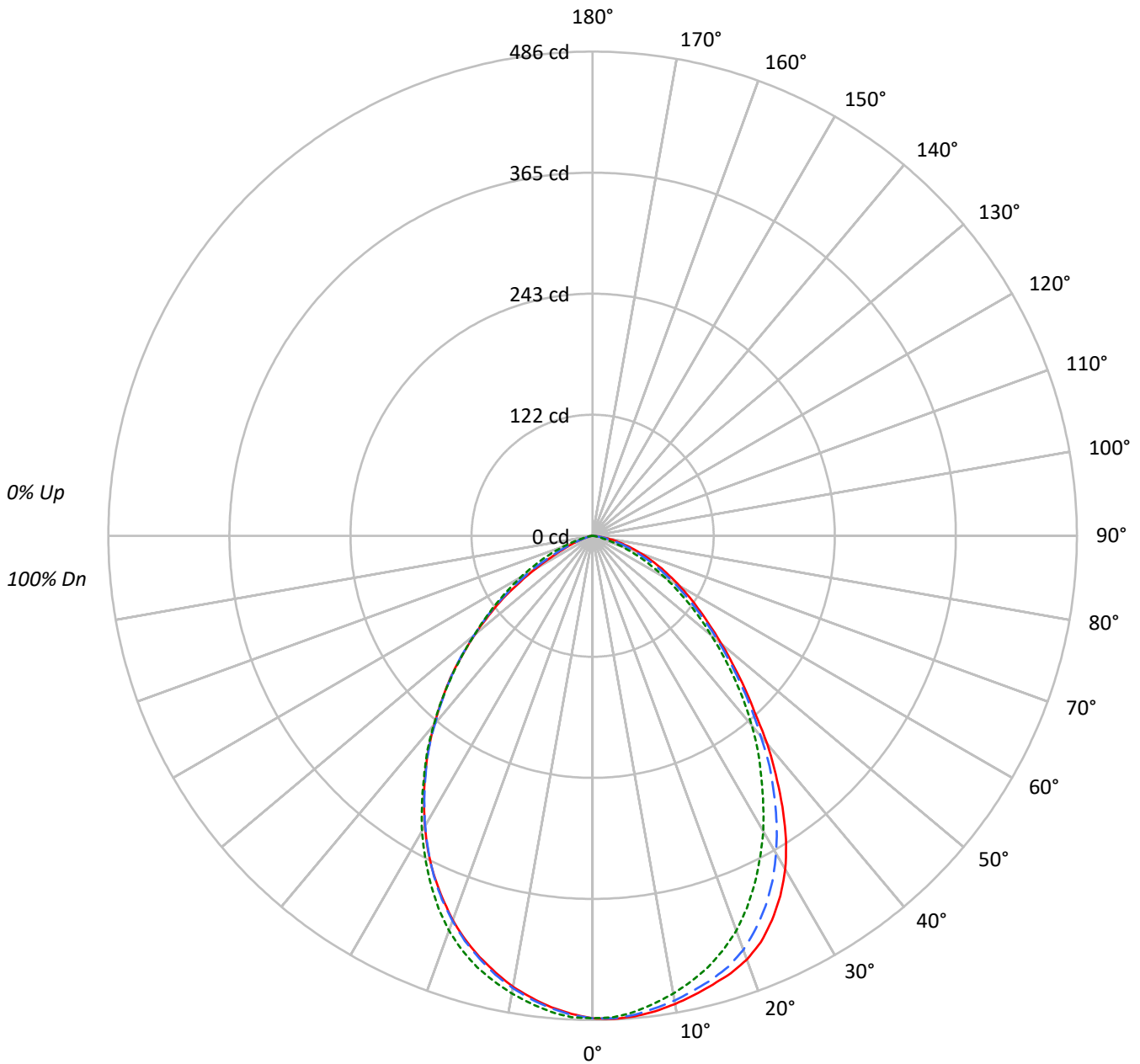
Lumens per Lamp: N/A
Luminaire Lumens: 881.0 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

Input Watts (W): 9.8
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	41	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°	26549	26549	26549
5°	26645	26403	26145
10°	26564	25974	25595
15°	26464	25437	24847
20°	26404	24601	23942
25°	25762	23282	22767
30°	24478	21681	21320
35°	22218	19742	19608
40°	19494	17769	17676
45°	16715	15521	15653
50°	14388	13236	13159
55°	12568	11173	10485
60°	11052	9155	7160
65°	9677	7095	4307
70°	8239	4776	2532
75°	6651	2478	1377
80°	4641	979	758
85°	1824	314	440



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	45.4	5.2
10°-20°	126.7	14.4
20°-30°	180.3	20.5
30°-40°	189.8	21.5
40°-50°	158.2	18.0
50°-60°	106.9	12.1
60°-70°	54.2	6.2
70°-80°	17.5	2.0
80°-90°	2.0	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°	352.5	40.0
0°-40°	542.3	61.5
0°-60°	807.3	91.6
0°-90°	881.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	881.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	484	484	484	484	484	
5°	484	483	480	476	475	46
15°	466	461	448	439	438	132
25°	426	410	385	377	376	195
35°	332	318	295	292	293	207
45°	216	210	200	201	202	167
55°	132	125	117	113	110	118
65°	75	67	55	40	33	74
75°	31	25	12	6	6	34
85°	3	2	0	1	1	5
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°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	485.5	485.5	485.5	485.5	485.5	485.5	485.3	485.3	485.0	485.0	484.8
5°	484.2	484.3	484.3	484.2	484.2	483.9	483.9	483.7	483.2	482.9	482.7
7.5°	481.4	481.4	481.2	481.1	480.9	480.4	480.3	479.8	479.5	479.1	478.5
10°	477.2	477.2	477.0	476.7	476.5	476.2	476.2	475.5	474.9	474.1	473.6
12.5°	472.1	472.3	472.0	471.8	471.3	471.2	470.8	470.0	469.5	468.5	467.7
15°	466.3	466.6	466.6	465.9	465.5	465.3	464.8	464.3	463.2	462.2	461.2
17.5°	460.6	460.9	460.6	460.1	459.6	458.9	458.6	457.6	456.2	454.9	453.4
20°	452.6	453.1	452.4	451.6	450.6	450.5	450.0	448.4	446.2	444.3	442.2
22.5°	441.4	441.0	440.5	440.2	438.6	437.6	437.0	434.8	432.6	430.0	427.4
25°	425.9	426.5	425.6	424.1	423.3	422.3	420.7	418.4	416.3	413.5	410.4
27.5°	407.7	407.7	406.4	405.9	404.1	402.8	402.0	399.7	396.9	394.1	390.7
30°	386.7	385.7	385.7	383.4	381.9	381.4	380.6	376.9	374.4	371.5	368.1
32.5°	361.3	361.1	360.4	359.0	357.0	355.4	355.4	352.8	349.5	346.0	343.8
35°	332.0	332.1	331.8	330.2	330.2	328.2	327.9	325.6	323.0	320.2	317.6
37.5°	301.7	302.3	301.7	300.9	300.4	300.2	298.7	297.1	295.2	293.5	291.6
40°	272.4	271.4	271.7	270.1	270.3	269.9	269.3	267.2	266.0	264.4	262.3
42.5°	240.8	241.8	242.1	241.1	240.8	240.1	240.8	240.0	238.7	237.9	235.9
45°	215.6	214.6	215.1	214.7	214.9	213.6	213.1	212.8	212.3	210.8	210.0
47.5°	190.5	190.6	190.5	189.8	189.5	189.5	188.9	187.9	187.9	186.9	186.2
50°	168.7	168.7	169.0	168.2	167.9	167.2	167.4	166.4	165.7	164.9	164.4
52.5°	148.6	148.8	148.2	148.3	148.0	148.0	147.3	146.7	146.0	144.6	144.2
55°	131.5	131.7	130.9	131.2	130.2	129.8	129.4	128.5	128.5	127.0	125.2
57.5°	115.6	115.4	115.3	114.8	114.1	113.6	113.1	112.0	111.5	110.5	109.1
60°	100.8	100.6	100.3	100.1	99.6	98.5	98.5	97.7	96.1	95.1	93.6
62.5°	86.8	86.8	86.6	86.1	85.6	85.1	84.8	84.2	82.5	81.4	80.1
65°	74.6	74.4	73.9	73.1	72.8	72.8	71.6	71.1	69.8	68.7	67.2
67.5°	62.8	62.2	61.9	62.0	61.1	61.1	60.1	59.3	58.1	56.2	55.0
70°	51.4	51.1	50.8	50.5	50.3	49.7	49.2	48.2	47.1	45.6	43.8
72.5°	41.2	41.2	40.7	40.4	39.9	39.2	38.9	38.1	36.8	35.2	33.9
75°	31.4	31.4	31.4	30.8	30.4	30.1	29.1	28.7	27.2	26.2	24.6
77.5°	23.1	22.8	22.3	22.1	21.8	21.5	21.0	20.2	18.9	17.7	16.8
80°	14.7	15.1	14.7	14.7	13.8	13.5	13.3	12.4	11.9	10.9	10.1
82.5°	8.1	8.3	8.0	7.8	7.3	7.2	7.2	6.5	6.2	5.5	5.0
85°	2.9	3.1	2.9	2.9	2.6	2.8	2.6	2.4	2.1	1.8	1.6
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	484.8	484.5	484.5	484.3	484.2	484.2	484.2	484.0	483.7	483.7	483.5
5°	482.4	482.1	481.6	481.2	481.1	480.9	480.8	480.6	479.9	479.8	479.3
7.5°	478.0	477.7	476.9	476.5	476.0	475.9	475.2	474.9	474.2	473.6	473.3
10°	472.8	472.0	471.3	470.5	470.2	469.7	468.9	467.9	467.4	466.6	465.9
12.5°	466.9	465.9	464.6	463.7	463.3	462.5	461.2	460.4	459.3	458.0	456.8
15°	459.6	458.5	457.3	455.5	455.0	454.1	452.8	451.1	449.5	448.2	446.9
17.5°	451.6	449.8	448.0	446.1	444.6	444.1	442.0	439.7	438.3	436.0	434.5
20°	440.4	437.9	435.0	433.1	431.8	430.3	427.8	425.4	423.6	421.7	419.5
22.5°	424.9	422.6	419.2	416.3	415.3	413.2	411.1	408.8	406.5	404.4	401.8
25°	406.7	404.2	400.8	397.9	396.3	395.3	391.2	388.9	386.7	384.9	383.1
27.5°	388.0	383.6	381.3	376.7	375.3	374.9	371.2	368.8	366.3	363.9	361.6
30°	364.8	361.4	358.0	354.7	352.8	351.7	348.9	345.8	344.2	342.5	340.3
32.5°	340.9	337.8	333.6	330.5	329.0	327.4	325.0	322.8	320.4	318.6	318.1
35°	315.4	311.9	308.3	306.1	305.7	303.8	301.3	299.6	297.8	295.0	294.5
37.5°	288.0	286.0	283.6	280.3	278.9	278.9	276.4	275.1	272.9	272.7	271.4
40°	261.1	260.3	256.6	255.6	255.3	253.0	252.3	250.1	248.4	248.3	246.3
42.5°	234.6	232.5	231.8	230.2	228.7	228.4	226.9	226.0	225.3	224.3	223.4
45°	208.2	207.7	206.1	205.0	204.5	203.8	203.3	201.4	201.1	200.2	199.8
47.5°	185.4	184.1	182.7	181.4	181.2	180.2	179.1	179.1	177.3	177.1	176.8
50°	162.8	161.8	161.0	159.2	159.5	158.2	158.1	156.6	155.8	155.2	156.0
52.5°	142.9	141.0	140.7	139.2	138.7	138.9	137.1	136.6	136.3	135.6	135.3
55°	124.1	123.1	121.8	120.8	120.0	119.2	118.5	118.5	116.7	116.9	116.1
57.5°	107.5	106.6	105.0	103.5	103.2	102.2	101.4	100.6	100.4	99.3	98.5
60°	92.6	91.2	89.1	88.4	87.4	86.6	85.8	84.8	84.3	83.5	82.1
62.5°	78.8	76.4	75.5	74.2	73.1	72.6	71.3	70.2	69.4	68.2	67.1
65°	65.6	63.8	62.4	60.9	60.7	59.4	58.3	57.3	55.7	54.7	52.6
67.5°	53.6	51.9	50.3	48.8	47.7	47.4	45.6	44.4	43.3	41.4	39.6
70°	42.5	40.9	39.6	37.8	37.3	36.0	34.7	33.5	31.6	29.8	28.3
72.5°	32.4	30.6	29.1	27.8	27.0	25.9	24.6	23.3	21.3	19.5	18.2
75°	23.1	21.8	20.4	19.0	18.4	17.7	16.3	14.8	13.5	11.7	10.6
77.5°	15.6	14.3	13.0	11.9	11.1	10.6	9.6	8.5	7.3	6.3	5.5
80°	9.1	8.3	7.3	6.3	6.2	5.7	4.9	4.2	3.6	3.1	2.4
82.5°	4.4	3.9	3.3	2.8	2.4	2.3	2.0	1.6	1.3	1.1	1.1
85°	1.3	1.1	1.0	0.8	0.7	0.7	0.5	0.5	0.5	0.5	0.5
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	483.0	482.9	482.7	482.5	482.2	482.2	481.7	481.4	481.4	481.1	480.9
5°	478.8	478.3	478.2	477.8	477.5	477.3	476.7	476.5	476.2	475.9	475.9
7.5°	472.8	472.1	471.5	471.2	471.0	470.5	470.2	470.0	469.5	469.2	468.5
10°	464.8	464.3	463.5	463.2	462.9	462.5	461.7	461.2	461.1	460.7	460.4
12.5°	455.5	454.9	454.1	453.4	453.1	452.6	451.8	451.3	451.3	450.6	450.6
15°	445.6	444.6	443.2	442.5	442.3	441.4	440.7	440.1	439.2	438.9	438.9
17.5°	432.9	431.3	430.0	430.0	429.3	428.3	427.4	426.9	426.4	425.7	425.4
20°	417.9	416.8	415.3	415.3	413.8	413.5	412.5	412.4	411.2	411.4	410.9
22.5°	399.8	399.2	398.4	397.7	396.9	395.9	395.4	395.6	395.1	395.0	394.8
25°	381.6	379.8	378.8	378.5	378.2	377.4	377.1	376.9	376.9	376.4	376.6
27.5°	360.6	359.3	358.0	358.5	357.8	357.4	357.0	356.5	356.9	356.7	356.9
30°	339.1	337.5	336.7	337.0	336.8	335.5	336.2	336.0	336.2	336.2	336.5
32.5°	316.5	315.4	315.2	315.4	313.9	314.0	313.4	314.4	314.5	315.5	314.7
35°	293.5	292.9	291.7	291.6	291.7	291.6	291.6	292.2	292.1	293.0	292.7
37.5°	269.9	269.6	268.5	268.8	268.1	269.3	269.6	269.3	270.4	270.1	269.9
40°	246.8	246.3	245.7	247.0	246.2	245.5	246.6	245.7	246.0	247.0	247.0
42.5°	223.4	222.6	222.6	222.6	222.4	222.4	222.9	223.4	223.0	223.2	224.5
45°	199.8	199.6	199.1	199.4	199.3	200.1	200.1	200.4	201.1	201.7	201.4
47.5°	177.0	176.6	177.1	176.8	177.0	176.5	176.8	177.8	178.6	177.5	178.6
50°	155.6	155.0	154.8	155.3	155.2	155.0	155.3	155.3	155.0	155.0	156.1
52.5°	135.3	134.6	134.2	135.0	134.5	134.6	134.0	134.0	134.3	134.0	133.5
55°	116.2	115.8	115.1	115.4	114.6	114.5	113.8	113.8	113.3	113.0	112.0
57.5°	98.0	97.7	96.2	96.1	96.2	95.1	93.9	93.4	92.1	91.8	91.7
60°	81.9	80.1	79.3	78.3	77.7	77.2	75.9	75.1	73.1	72.0	71.8
62.5°	65.1	64.3	63.3	61.9	61.5	59.9	58.6	56.5	55.5	54.1	52.6
65°	51.6	49.5	48.0	47.2	45.9	44.4	43.0	40.7	39.6	37.8	36.3
67.5°	37.8	36.0	34.0	33.4	32.2	30.4	29.0	27.0	26.0	24.4	23.9
70°	25.9	24.3	22.8	21.8	21.0	19.2	17.7	17.1	16.1	15.8	15.8
72.5°	16.6	15.1	13.5	13.0	12.4	11.4	10.4	10.1	10.4	10.3	10.3
75°	9.3	8.5	7.3	6.8	6.8	6.5	6.3	6.3	6.3	6.3	6.3
77.5°	4.7	4.2	3.9	3.7	3.7	3.7	3.9	3.9	3.9	4.1	3.9
80°	2.3	2.1	2.1	2.1	2.3	2.3	2.3	2.3	2.3	2.4	2.3
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.3	1.3	1.3
85°	0.5	0.5	0.5	0.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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°	484.3	484.3	484.3	484.3	484.3	484.3	484.3	484.3
2.5°	480.8	480.4	480.4	480.3	480.3	480.3	480.3	480.4
5°	475.5	475.4	475.4	475.1	475.1	475.1	475.1	475.1
7.5°	468.5	468.2	468.4	468.1	468.1	468.2	468.1	467.9
10°	459.9	459.8	459.9	459.9	459.6	459.4	459.6	459.8
12.5°	450.2	450.0	449.7	449.8	449.8	449.7	449.5	449.2
15°	438.8	438.6	438.4	438.3	438.1	438.3	438.1	437.8
17.5°	425.4	425.4	425.2	425.1	424.9	424.6	424.8	425.2
20°	411.1	410.9	410.6	410.8	410.1	409.8	409.9	410.4
22.5°	394.6	394.1	394.5	394.0	394.0	394.1	394.0	393.7
25°	376.7	376.1	376.4	376.6	376.6	376.4	376.2	376.4
27.5°	356.9	357.4	357.4	357.0	357.5	356.9	357.2	357.4
30°	336.5	336.0	335.9	336.5	337.5	336.7	336.7	336.8
32.5°	315.5	314.9	314.9	315.2	315.0	315.0	315.7	314.9
35°	293.0	293.4	292.1	292.9	293.2	292.9	293.0	293.0
37.5°	270.4	270.1	270.1	270.1	270.6	270.6	270.9	270.7
40°	248.1	247.5	247.3	247.6	247.0	247.5	247.5	247.0
42.5°	224.0	224.2	225.0	224.2	224.3	224.2	223.9	223.7
45°	201.7	202.2	201.9	201.7	201.9	201.2	201.4	201.9
47.5°	178.1	179.1	178.1	178.8	178.6	178.3	177.9	177.3
50°	156.0	156.3	156.1	156.0	155.8	155.6	154.8	154.3
52.5°	133.3	133.3	133.3	133.3	131.7	132.5	132.2	131.2
55°	111.2	111.7	111.0	111.0	109.9	109.9	109.6	109.7
57.5°	89.9	89.4	88.9	88.9	87.8	87.3	86.8	86.1
60°	70.0	69.5	68.9	68.1	66.9	66.9	66.6	65.3
62.5°	51.3	50.5	50.0	49.3	48.4	47.7	47.2	47.5
65°	35.2	34.4	33.7	33.7	33.7	33.4	33.2	33.2
67.5°	23.1	23.6	23.3	23.6	23.6	23.3	23.1	23.4
70°	16.0	16.0	15.8	15.8	15.8	15.8	15.6	15.8
72.5°	10.3	10.3	10.3	10.4	10.3	10.3	10.4	10.4
75°	6.5	6.5	6.5	6.7	6.5	6.5	6.7	6.5
77.5°	3.9	4.1	4.1	4.1	4.1	3.9	4.1	4.1
80°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
82.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
85°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
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)