

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: P683883

Luminaire Tested: **LX6C10D010 EX6C109030 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: P683883
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 EX6C109030 6LBLWWH
Description: 6 INCH 1000 LUMEN PORTFOLIO LED DOWNLIGHT WITH, 3000K, 90CRI LEDS
AND 6LRLWW TRIM WITH H FINISH
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

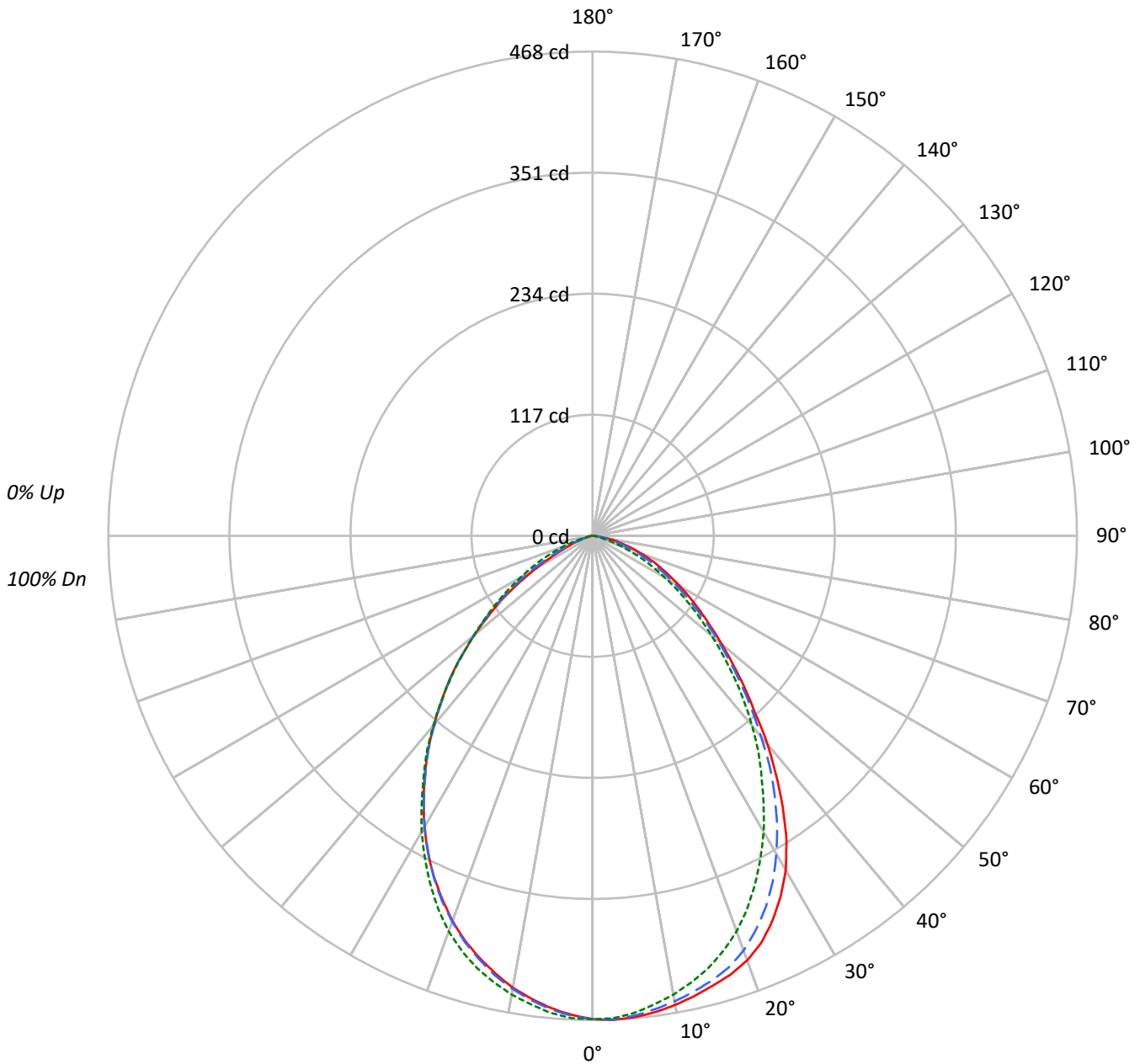
Lumens per Lamp: N/A
Luminaire Lumens: 850.0 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.08 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

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°	25617	25617	25617
5°	25704	25473	25220
10°	25629	25061	24693
15°	25534	24540	23973
20°	25476	23732	23102
25°	24854	22459	21969
30°	23618	20921	20573
35°	21435	19046	18919
40°	18807	17139	17053
45°	16126	14978	15102
50°	13876	12767	12699
55°	12129	10781	10122
60°	10657	8837	6907
65°	9327	6849	4151
70°	7950	4600	2436
75°	6418	2393	1334
80°	4451	947	758
85°	1761	314	377



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	5.2
10°-20°	122.3	14.4
20°-30°	174.0	20.5
30°-40°	183.1	21.5
40°-50°	152.6	18.0
50°-60°	103.1	12.1
60°-70°	52.3	6.2
70°-80°	16.9	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°	340.1	40.0
0°-40°	523.2	61.5
0°-60°	778.9	91.6
0°-90°	850.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	850.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	467	467	467	467	467	
5°	467	466	463	459	458	44
15°	450	445	432	424	422	127
25°	411	396	371	364	363	188
35°	320	306	285	282	283	199
45°	208	203	193	194	195	161
55°	127	121	113	109	106	114
65°	72	65	53	38	32	72
75°	30	24	11	6	6	33
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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	468.4	468.4	468.4	468.4	468.4	468.4	468.2	468.2	467.9	467.9	467.8
5°	467.1	467.3	467.3	467.1	467.1	466.8	466.8	466.7	466.2	465.9	465.7
7.5°	464.5	464.5	464.3	464.2	464.0	463.5	463.4	462.9	462.6	462.3	461.6
10°	460.4	460.4	460.2	459.9	459.8	459.4	459.4	458.8	458.2	457.4	456.9
12.5°	455.5	455.7	455.4	455.2	454.7	454.6	454.3	453.5	453.0	452.1	451.3
15°	449.9	450.2	450.2	449.5	449.1	448.9	448.4	448.0	446.9	445.9	445.0
17.5°	444.4	444.7	444.4	443.9	443.4	442.8	442.5	441.5	440.1	438.9	437.5
20°	436.7	437.1	436.5	435.7	434.8	434.6	434.2	432.6	430.5	428.7	426.6
22.5°	425.8	425.5	425.0	424.7	423.2	422.2	421.6	419.5	417.3	414.8	412.3
25°	410.9	411.5	410.6	409.2	408.4	407.5	405.9	403.7	401.6	399.0	396.0
27.5°	393.3	393.3	392.1	391.6	389.9	388.6	387.8	385.6	382.9	380.3	377.0
30°	373.1	372.1	372.1	369.9	368.5	368.0	367.2	363.6	361.3	358.4	355.1
32.5°	348.5	348.4	347.8	346.4	344.5	342.9	342.9	340.4	337.2	333.8	331.7
35°	320.3	320.4	320.1	318.5	318.5	316.7	316.3	314.1	311.6	309.0	306.5
37.5°	291.1	291.7	291.1	290.3	289.8	289.6	288.2	286.7	284.8	283.2	281.3
40°	262.8	261.8	262.2	260.6	260.7	260.4	259.8	257.8	256.7	255.1	253.0
42.5°	232.3	233.3	233.6	232.6	232.3	231.7	232.3	231.5	230.3	229.5	227.6
45°	208.0	207.0	207.5	207.2	207.3	206.1	205.6	205.3	204.8	203.4	202.6
47.5°	183.8	183.9	183.8	183.1	182.8	182.8	182.2	181.3	181.3	180.3	179.7
50°	162.7	162.7	163.0	162.3	161.9	161.3	161.5	160.5	159.9	159.1	158.6
52.5°	143.4	143.6	142.9	143.1	142.8	142.8	142.2	141.5	140.9	139.5	139.2
55°	126.9	127.1	126.3	126.6	125.7	125.2	124.9	123.9	123.9	122.5	120.8
57.5°	111.5	111.4	111.2	110.7	110.1	109.6	109.2	108.1	107.6	106.7	105.2
60°	97.2	97.1	96.8	96.6	96.1	95.0	95.0	94.2	92.7	91.7	90.3
62.5°	83.7	83.7	83.6	83.1	82.6	82.2	81.8	81.2	79.6	78.5	77.3
65°	71.9	71.8	71.3	70.5	70.2	70.2	69.1	68.6	67.4	66.3	64.9
67.5°	60.6	60.0	59.7	59.8	58.9	58.9	58.0	57.2	56.1	54.2	53.1
70°	49.6	49.3	49.0	48.7	48.5	47.9	47.4	46.5	45.4	44.0	42.3
72.5°	39.7	39.7	39.3	39.0	38.5	37.9	37.5	36.8	35.5	33.9	32.7
75°	30.3	30.3	30.3	29.7	29.4	29.1	28.1	27.6	26.2	25.3	23.7
77.5°	22.3	22.0	21.5	21.4	21.0	20.7	20.3	19.5	18.2	17.1	16.2
80°	14.1	14.6	14.1	14.1	13.4	13.0	12.9	11.9	11.5	10.5	9.7
82.5°	7.9	8.0	7.7	7.5	7.1	6.9	6.9	6.3	6.0	5.3	4.9
85°	2.8	3.0	2.8	2.8	2.5	2.7	2.5	2.4	2.0	1.7	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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	467.8	467.5	467.5	467.3	467.1	467.1	467.1	467.0	466.7	466.7	466.5
5°	465.4	465.1	464.6	464.3	464.2	464.0	463.8	463.7	463.1	462.9	462.4
7.5°	461.2	460.9	460.1	459.8	459.3	459.1	458.5	458.2	457.6	456.9	456.6
10°	456.1	455.4	454.7	453.9	453.6	453.2	452.4	451.4	451.0	450.2	449.5
12.5°	450.5	449.5	448.3	447.3	447.0	446.2	445.0	444.2	443.1	441.9	440.8
15°	443.4	442.3	441.2	439.5	439.0	438.1	436.8	435.3	433.7	432.4	431.2
17.5°	435.7	434.0	432.3	430.4	429.0	428.5	426.5	424.3	422.8	420.6	419.2
20°	424.9	422.5	419.7	417.8	416.6	415.1	412.8	410.4	408.7	406.8	404.8
22.5°	410.0	407.8	404.5	401.6	400.7	398.7	396.6	394.4	392.2	390.2	387.7
25°	392.4	390.0	386.7	383.9	382.3	381.4	377.5	375.3	373.1	371.3	369.6
27.5°	374.3	370.1	367.9	363.5	362.1	361.7	358.1	355.8	353.4	351.1	348.9
30°	352.0	348.7	345.4	342.3	340.4	339.3	336.6	333.6	332.1	330.5	328.3
32.5°	328.9	325.9	321.8	318.9	317.4	315.9	313.5	311.5	309.1	307.4	306.9
35°	304.3	301.0	297.5	295.3	295.0	293.1	290.7	289.0	287.3	284.6	284.1
37.5°	277.9	276.0	273.6	270.5	269.1	269.1	266.7	265.5	263.3	263.1	261.8
40°	251.9	251.2	247.6	246.6	246.3	244.1	243.5	241.3	239.7	239.5	237.7
42.5°	226.3	224.3	223.7	222.1	220.7	220.4	219.0	218.0	217.4	216.4	215.5
45°	200.9	200.4	198.9	197.8	197.3	196.7	196.2	194.3	194.0	193.2	192.7
47.5°	178.9	177.7	176.2	175.0	174.8	173.9	172.8	172.8	171.1	170.9	170.6
50°	157.1	156.1	155.3	153.6	153.9	152.7	152.5	151.1	150.3	149.7	150.5
52.5°	137.9	136.0	135.7	134.3	133.8	134.0	132.3	131.8	131.5	130.8	130.5
55°	119.7	118.7	117.5	116.5	115.8	115.0	114.4	114.4	112.6	112.8	112.0
57.5°	103.7	102.9	101.3	99.9	99.6	98.6	97.9	97.1	96.9	95.8	95.0
60°	89.4	88.0	85.9	85.3	84.3	83.6	82.8	81.8	81.4	80.6	79.2
62.5°	76.0	73.7	72.9	71.6	70.5	70.1	68.8	67.7	66.9	65.8	64.7
65°	63.3	61.6	60.2	58.7	58.6	57.3	56.2	55.3	53.7	52.8	50.7
67.5°	51.7	50.1	48.5	47.1	46.0	45.7	44.0	42.9	41.8	39.9	38.2
70°	41.0	39.4	38.2	36.4	36.0	34.7	33.5	32.4	30.5	28.7	27.3
72.5°	31.3	29.5	28.1	26.9	26.1	25.0	23.7	22.5	20.6	18.8	17.6
75°	22.3	21.0	19.6	18.4	17.7	17.1	15.7	14.3	13.0	11.3	10.2
77.5°	15.1	13.8	12.6	11.5	10.7	10.2	9.3	8.2	7.1	6.1	5.3
80°	8.8	8.0	7.1	6.1	6.0	5.5	4.7	4.1	3.5	3.0	2.4
82.5°	4.2	3.8	3.1	2.7	2.4	2.2	1.9	1.6	1.3	1.1	1.1
85°	1.3	1.1	0.9	0.8	0.6	0.6	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°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	466.0	465.9	465.7	465.6	465.3	465.3	464.8	464.5	464.5	464.2	464.0
5°	462.0	461.5	461.3	461.0	460.7	460.5	459.9	459.8	459.4	459.1	459.1
7.5°	456.1	455.5	454.9	454.6	454.4	453.9	453.6	453.5	453.0	452.7	452.1
10°	448.4	448.0	447.2	446.9	446.6	446.2	445.5	445.0	444.8	444.5	444.2
12.5°	439.5	438.9	438.1	437.5	437.1	436.7	435.9	435.4	435.4	434.8	434.8
15°	429.9	429.0	427.6	426.9	426.8	425.8	425.2	424.6	423.8	423.5	423.5
17.5°	417.7	416.1	414.8	414.8	414.2	413.3	412.3	411.9	411.4	410.8	410.4
20°	403.2	402.1	400.7	400.7	399.3	399.0	398.0	397.9	396.8	396.9	396.5
22.5°	385.8	385.1	384.4	383.7	382.9	382.0	381.5	381.7	381.2	381.1	380.9
25°	368.2	366.5	365.5	365.2	364.9	364.1	363.8	363.6	363.6	363.2	363.3
27.5°	347.9	346.7	345.4	345.9	345.3	344.8	344.5	344.0	344.3	344.2	344.3
30°	327.2	325.6	324.8	325.1	325.0	323.7	324.4	324.2	324.4	324.4	324.7
32.5°	305.4	304.3	304.1	304.3	302.8	303.0	302.4	303.3	303.5	304.4	303.6
35°	283.2	282.6	281.5	281.3	281.5	281.3	281.3	281.9	281.8	282.7	282.4
37.5°	260.4	260.1	259.0	259.3	258.7	259.8	260.1	259.8	260.9	260.6	260.4
40°	238.1	237.7	237.0	238.3	237.5	236.9	238.0	237.0	237.3	238.3	238.3
42.5°	215.5	214.7	214.7	214.7	214.6	214.6	215.0	215.5	215.2	215.3	216.6
45°	192.7	192.6	192.1	192.4	192.3	193.0	193.0	193.4	194.0	194.6	194.3
47.5°	170.7	170.4	170.9	170.6	170.7	170.3	170.6	171.5	172.3	171.2	172.3
50°	150.2	149.5	149.4	149.8	149.7	149.5	149.8	149.8	149.5	149.5	150.6
52.5°	130.5	129.9	129.4	130.2	129.7	129.9	129.3	129.3	129.6	129.3	128.8
55°	112.2	111.7	111.1	111.4	110.6	110.4	109.8	109.8	109.3	109.0	108.1
57.5°	94.6	94.2	92.8	92.7	92.8	91.7	90.6	90.2	88.9	88.6	88.4
60°	79.0	77.3	76.5	75.6	74.9	74.5	73.2	72.4	70.5	69.4	69.3
62.5°	62.8	62.0	61.1	59.7	59.4	57.8	56.5	54.5	53.6	52.1	50.7
65°	49.8	47.8	46.3	45.6	44.3	42.9	41.5	39.3	38.2	36.4	35.0
67.5°	36.4	34.7	32.8	32.2	31.1	29.4	28.0	26.1	25.1	23.6	23.1
70°	25.0	23.4	22.0	21.0	20.3	18.5	17.1	16.5	15.6	15.2	15.2
72.5°	16.0	14.6	13.0	12.6	11.9	11.0	10.1	9.7	10.1	9.9	9.9
75°	9.0	8.2	7.1	6.6	6.6	6.3	6.1	6.1	6.1	6.1	6.1
77.5°	4.6	4.1	3.8	3.6	3.6	3.6	3.8	3.8	3.8	3.9	3.8
80°	2.2	2.0	2.0	2.0	2.2	2.2	2.2	2.2	2.2	2.4	2.2
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	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	467.3	467.3	467.3	467.3	467.3	467.3	467.3	467.3
2.5°	463.8	463.5	463.5	463.4	463.4	463.4	463.4	463.5
5°	458.8	458.7	458.7	458.3	458.3	458.3	458.3	458.3
7.5°	452.1	451.7	451.9	451.6	451.6	451.7	451.6	451.4
10°	443.7	443.6	443.7	443.7	443.4	443.3	443.4	443.6
12.5°	434.3	434.2	433.8	434.0	434.0	433.8	433.7	433.4
15°	423.3	423.2	423.0	422.8	422.7	422.8	422.7	422.4
17.5°	410.4	410.4	410.3	410.1	410.0	409.7	409.8	410.3
20°	396.6	396.5	396.1	396.3	395.7	395.4	395.5	396.0
22.5°	380.7	380.3	380.6	380.1	380.1	380.3	380.1	379.8
25°	363.5	362.8	363.2	363.3	363.3	363.2	363.0	363.2
27.5°	344.3	344.8	344.8	344.5	344.9	344.3	344.6	344.8
30°	324.7	324.2	324.0	324.7	325.6	324.8	324.8	325.0
32.5°	304.4	303.8	303.8	304.1	303.9	303.9	304.6	303.8
35°	282.7	283.0	281.8	282.6	282.9	282.6	282.7	282.7
37.5°	260.9	260.6	260.6	260.6	261.1	261.1	261.4	261.2
40°	239.4	238.8	238.6	238.9	238.3	238.8	238.8	238.3
42.5°	216.1	216.3	217.1	216.3	216.4	216.3	216.0	215.8
45°	194.6	195.1	194.8	194.6	194.8	194.1	194.3	194.8
47.5°	171.8	172.8	171.8	172.5	172.3	172.0	171.7	171.1
50°	150.5	150.8	150.6	150.5	150.3	150.2	149.4	148.9
52.5°	128.6	128.6	128.6	128.6	127.1	127.9	127.5	126.6
55°	107.3	107.8	107.1	107.1	106.0	106.0	105.7	105.9
57.5°	86.7	86.2	85.8	85.8	84.7	84.2	83.7	83.1
60°	67.5	67.1	66.4	65.7	64.6	64.6	64.2	63.0
62.5°	49.5	48.7	48.2	47.6	46.7	46.0	45.6	45.9
65°	33.9	33.1	32.5	32.5	32.5	32.2	32.0	32.0
67.5°	22.3	22.8	22.5	22.8	22.8	22.5	22.3	22.6
70°	15.4	15.4	15.2	15.2	15.2	15.2	15.1	15.2
72.5°	9.9	9.9	9.9	10.1	9.9	9.9	10.1	10.1
75°	6.3	6.3	6.3	6.4	6.3	6.3	6.4	6.3
77.5°	3.8	3.9	3.9	3.9	3.9	3.8	3.9	3.9
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°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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)