

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: io LED

Report Number: P252344

Luminaire Tested: **LD6B10D010 EU6B10209035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252344
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 833.0 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

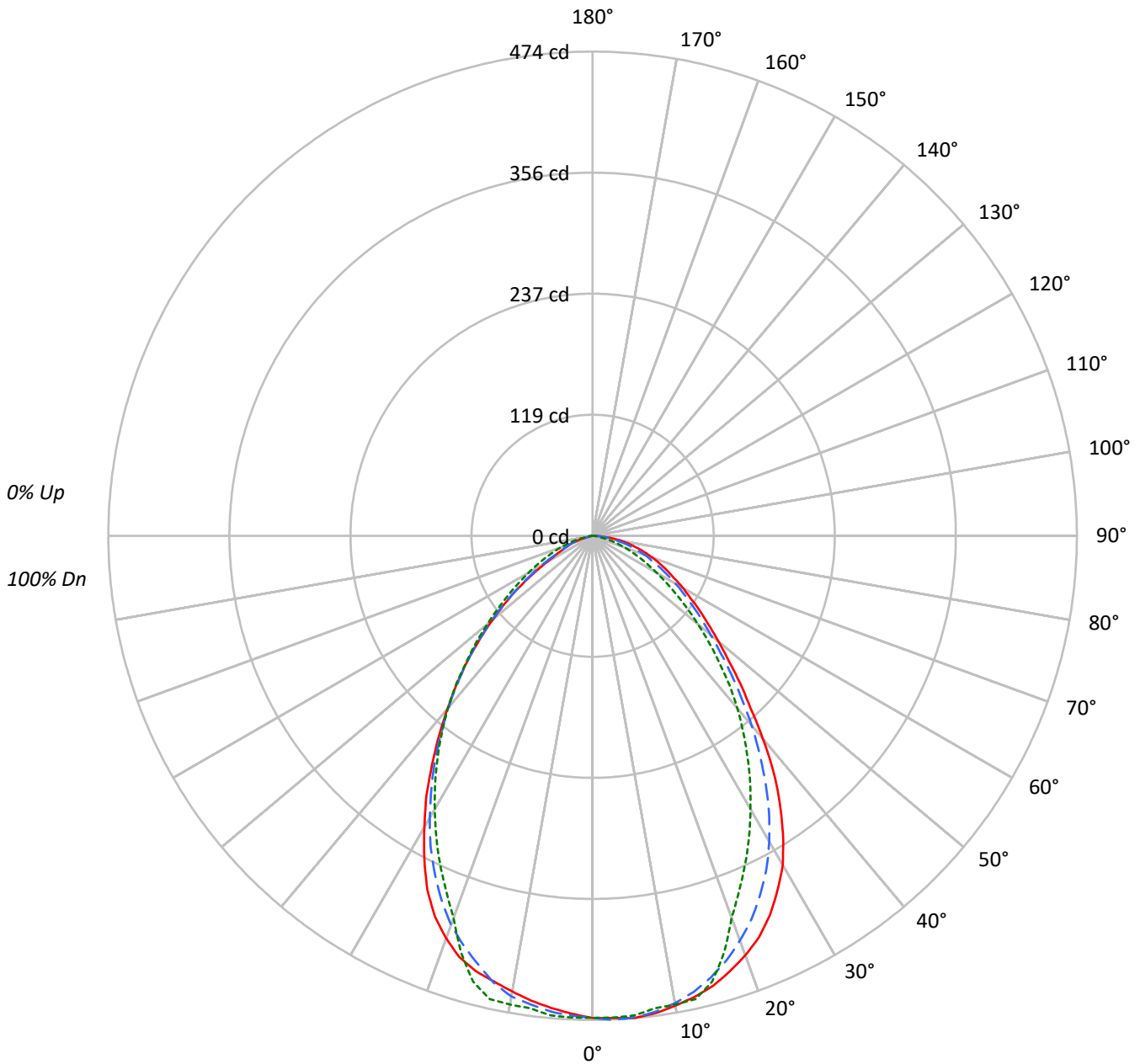
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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				100				
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88				88				
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77				77				
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68				68				
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60				60				
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54				54				
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48				48				
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44				44				
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40				40				
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36				36				
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33				33				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	30794	30794	30794
5°	31029	30872	30387
10°	30944	30865	30010
15°	30799	30516	29806
20°	30340	27618	29111
25°	29521	25461	27534
30°	28032	23270	24800
35°	25438	21042	21822
40°	22083	18745	18796
45°	18831	16119	15952
50°	16300	13621	12880
55°	14571	11363	9975
60°	13283	9434	6720
65°	12396	7765	5017
70°	11807	6314	4216
75°	11116	4487	1386
80°	10595	2292	451
85°	8683	1347	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.6	5.4
10°-20°	124.7	15.0
20°-30°	172.1	20.7
30°-40°	175.1	21.0
40°-50°	140.7	16.9
50°-60°	93.6	11.2
60°-70°	53.3	6.4
70°-80°	24.0	2.9
80°-90°	5.0	0.6
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°	341.3	41.0
0°-40°	516.4	62.0
0°-60°	750.7	90.1
0°-90°	833.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	833.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	472	472	472	472	472	
5°	474	473	471	468	464	45
15°	456	448	452	434	441	128
25°	410	388	354	365	382	188
35°	319	295	264	269	274	198
45°	204	192	175	173	173	158
55°	128	120	100	89	88	115
65°	80	72	50	32	32	80
75°	44	37	18	7	6	47
85°	12	8	2	1	0	14
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°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	472.6	475.0	474.4	473.8	474.4	473.8	472.6	472.6	471.4	471.4	474.4
5°	473.8	475.0	474.4	473.8	473.8	474.4	472.0	472.0	470.8	470.1	473.2
7.5°	471.4	473.2	472.0	472.0	471.4	472.0	469.5	469.5	467.7	467.1	470.1
10°	467.1	469.5	468.3	468.3	468.3	467.1	465.9	465.2	463.4	462.8	464.6
12.5°	462.2	464.0	463.4	462.2	462.2	462.2	459.7	459.1	456.7	455.4	457.3
15°	456.0	457.3	456.7	456.0	454.8	454.8	452.4	451.1	448.7	446.2	447.5
17.5°	446.9	448.7	447.5	446.9	445.0	445.0	442.6	441.3	437.7	435.2	435.8
20°	437.0	437.7	437.0	435.8	434.0	433.4	430.9	428.5	425.4	422.3	421.7
22.5°	425.4	426.0	424.2	422.9	421.1	420.5	417.4	415.6	410.7	407.0	406.4
25°	410.1	410.7	410.7	407.6	406.4	405.2	402.1	399.0	394.8	389.8	388.0
27.5°	391.7	393.5	392.3	389.2	386.8	386.2	383.1	380.7	375.1	370.8	368.4
30°	372.1	371.5	370.8	369.0	365.3	364.7	361.7	358.6	354.3	348.8	345.7
32.5°	346.9	346.9	346.3	344.5	340.8	339.6	337.1	333.5	328.6	324.3	321.2
35°	319.4	320.0	319.4	315.7	313.2	312.0	310.8	306.5	302.2	297.3	294.8
37.5°	290.5	288.7	289.3	286.3	283.2	284.4	280.7	278.9	274.0	270.3	267.9
40°	259.3	260.5	258.1	256.8	255.0	253.2	253.2	250.1	247.6	243.3	242.1
42.5°	228.6	230.5	229.9	228.6	226.2	226.8	223.7	222.5	219.4	217.6	215.8
45°	204.1	204.1	204.1	202.9	202.3	201.1	199.2	197.4	195.5	193.1	191.9
47.5°	180.2	180.2	180.8	179.6	178.4	177.8	176.5	176.5	173.5	171.0	169.8
50°	160.6	160.6	160.6	159.4	158.1	158.1	156.9	155.7	153.9	152.0	150.8
52.5°	142.8	142.8	142.8	141.6	141.0	140.4	139.8	139.1	136.7	135.5	134.2
55°	128.1	127.5	127.5	126.9	125.7	125.7	125.0	123.8	122.0	120.1	119.5
57.5°	113.4	114.0	113.4	113.4	112.2	112.2	110.9	110.3	108.5	107.3	106.0
60°	101.8	101.8	101.8	101.1	99.9	100.5	99.3	98.7	96.8	95.0	93.8
62.5°	90.1	90.7	90.7	90.1	88.9	88.9	88.3	87.7	85.8	84.0	82.1
65°	80.3	80.3	80.3	79.7	79.1	79.1	78.5	77.8	76.0	73.6	71.7
67.5°	71.1	70.5	70.5	70.5	69.9	69.3	68.7	68.0	66.2	64.4	61.9
70°	61.9	61.9	61.9	61.3	60.1	60.7	60.1	59.5	57.6	55.8	53.9
72.5°	53.3	53.3	52.7	52.1	52.1	51.5	51.5	50.9	49.0	46.6	44.7
75°	44.1	44.1	44.1	44.1	42.9	43.5	42.3	41.7	40.5	38.6	36.8
77.5°	36.2	36.2	36.2	35.6	34.9	34.9	34.3	33.7	31.9	30.6	28.2
80°	28.2	28.2	28.2	28.2	27.6	27.0	26.4	25.7	24.5	22.7	20.8
82.5°	20.8	20.8	20.2	20.2	20.2	19.6	19.0	18.4	17.2	15.9	14.7
85°	11.6	12.3	12.3	11.0	11.6	11.0	11.0	9.8	9.8	8.6	8.0
87.5°	4.3	3.7	3.7	3.7	3.7	3.7	3.7	3.1	3.1	3.1	2.5
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°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	472.0	471.4	473.8	473.8	470.1	472.0	472.6	471.4	471.4	472.0	470.1
5°	470.8	469.5	472.0	472.6	468.9	470.8	471.4	470.1	470.8	471.4	468.9
7.5°	466.5	466.5	468.3	468.9	465.2	467.1	467.1	465.9	466.5	466.5	464.6
10°	462.2	460.3	462.2	462.2	459.1	459.7	461.0	460.3	462.8	465.9	465.9
12.5°	454.2	452.4	455.4	455.4	453.6	456.0	459.1	461.0	463.4	464.6	461.0
15°	444.4	445.0	450.5	454.8	453.0	456.7	459.7	458.5	455.4	451.8	446.2
17.5°	431.5	429.7	434.6	437.0	434.6	435.8	438.3	435.8	430.9	427.9	420.5
20°	416.8	411.9	411.9	410.7	406.4	406.4	405.8	401.5	399.7	397.8	394.8
22.5°	400.3	394.8	392.9	389.2	385.6	384.9	383.1	378.8	376.4	375.1	371.5
25°	381.3	376.4	373.3	369.6	364.1	362.9	361.0	356.7	355.5	353.7	350.6
27.5°	361.7	355.5	351.2	347.6	342.6	342.0	338.4	335.3	332.8	331.6	329.2
30°	339.0	332.2	329.2	324.3	320.6	319.4	316.3	312.0	310.2	308.9	307.1
32.5°	313.8	308.3	305.3	301.0	296.1	296.7	293.0	289.3	288.1	286.9	285.0
35°	289.3	283.8	280.1	276.4	273.4	272.2	269.7	266.6	264.8	264.2	263.0
37.5°	262.3	258.1	255.0	251.3	248.9	247.6	246.4	243.3	242.1	242.1	239.7
40°	236.0	232.3	229.9	228.0	225.0	224.3	223.1	221.3	220.7	220.1	218.2
42.5°	212.1	207.2	205.3	204.1	202.3	201.1	200.4	199.2	198.6	198.0	196.1
45°	189.4	185.1	183.3	182.1	180.2	179.6	179.0	177.1	175.9	174.7	174.1
47.5°	167.3	164.3	163.7	160.6	159.4	158.1	156.9	155.7	155.1	154.5	152.0
50°	148.3	146.5	143.4	141.6	140.4	139.8	137.3	135.5	134.9	134.2	132.4
52.5°	131.2	128.7	126.9	123.8	123.2	122.0	120.8	118.3	117.1	116.5	114.6
55°	115.9	114.0	111.6	109.1	107.3	106.7	104.8	102.4	101.1	99.9	98.7
57.5°	103.0	99.9	97.5	95.0	93.8	91.9	90.1	88.9	87.0	85.2	83.4
60°	90.7	88.3	85.2	82.8	81.5	80.3	77.8	76.0	74.2	72.3	70.5
62.5°	79.1	76.6	73.6	71.1	69.9	68.7	66.2	64.4	62.5	60.7	58.2
65°	68.7	66.2	63.7	61.3	60.1	58.8	56.4	53.9	52.1	50.3	47.8
67.5°	60.1	57.0	54.6	52.1	50.9	49.7	47.2	45.4	42.9	41.1	38.6
70°	50.9	48.4	46.6	44.1	42.9	41.7	39.2	36.8	34.9	33.1	30.6
72.5°	42.9	39.8	38.0	35.6	34.3	33.7	31.3	29.4	27.6	25.1	23.3
75°	34.3	31.9	29.4	27.6	26.4	25.7	23.3	21.5	19.6	17.8	15.9
77.5°	26.4	24.5	22.1	20.2	19.0	18.4	15.9	14.1	12.3	11.0	9.2
80°	19.6	17.2	15.9	14.1	13.5	12.3	11.0	9.2	8.0	6.1	4.9
82.5°	13.5	11.6	10.4	9.2	8.6	8.0	6.7	5.5	4.3	3.7	3.1
85°	7.4	6.1	5.5	4.9	4.3	4.3	3.7	3.1	2.5	1.8	1.2
87.5°	2.5	1.8	1.8	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6
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°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	471.4	471.4	471.4	470.8	470.8	470.8	470.1	472.6	470.1	469.5	471.4
5°	470.8	469.5	469.5	469.5	469.5	468.9	468.3	469.5	467.7	467.1	467.1
7.5°	467.1	466.5	466.5	465.9	465.2	464.6	464.0	464.6	462.8	462.2	462.2
10°	467.7	466.5	466.5	464.6	463.4	461.6	459.7	460.3	457.9	456.0	456.0
12.5°	460.3	457.3	455.4	453.6	452.4	451.8	449.3	450.5	448.1	447.5	447.5
15°	443.8	440.1	437.0	435.8	435.8	434.6	432.8	435.2	434.0	434.6	437.7
17.5°	418.0	416.2	414.4	413.8	414.4	415.6	416.8	420.5	420.5	422.3	425.4
20°	395.4	394.1	395.4	395.4	396.0	398.4	400.9	403.9	405.2	407.0	411.3
22.5°	373.3	373.3	374.5	376.4	375.7	380.0	380.7	386.2	386.2	389.8	393.5
25°	351.8	351.8	353.1	353.7	354.9	357.4	359.8	364.1	365.3	369.0	372.1
27.5°	331.0	330.4	330.4	331.0	332.2	335.3	336.5	341.4	343.3	345.7	348.8
30°	307.7	307.1	308.3	309.5	308.9	312.0	313.8	317.5	318.7	321.2	323.6
32.5°	285.6	285.6	285.6	286.9	286.9	289.3	289.3	293.6	293.6	295.5	297.9
35°	263.0	263.0	263.6	264.2	264.8	265.4	266.0	268.5	269.1	269.7	270.9
37.5°	241.5	240.9	241.5	241.5	240.3	242.7	242.7	245.2	243.3	245.2	245.8
40°	219.4	219.4	218.8	218.8	218.8	220.1	218.8	220.7	219.4	220.7	220.1
42.5°	196.8	196.8	195.5	196.8	196.1	196.1	196.1	197.4	195.5	196.8	197.4
45°	174.1	173.5	173.5	172.9	172.9	172.9	173.5	173.5	172.9	174.1	174.1
47.5°	152.0	151.4	151.4	151.4	151.4	152.0	150.2	151.4	150.2	150.2	150.2
50°	133.0	132.4	131.8	131.2	130.6	130.6	129.9	129.9	128.7	128.1	127.5
52.5°	114.6	114.0	112.8	112.8	112.2	111.6	109.7	109.7	107.9	107.3	107.3
55°	98.1	96.2	95.6	94.4	94.4	93.2	91.9	90.7	88.9	87.7	87.7
57.5°	82.8	80.9	79.7	79.1	78.5	77.2	74.8	74.2	71.7	71.1	70.5
60°	69.3	67.4	65.6	64.4	63.7	61.9	59.5	58.2	57.0	55.2	53.3
62.5°	56.4	54.6	52.1	51.5	50.3	48.4	46.6	44.7	43.5	41.7	40.5
65°	45.4	43.5	41.7	40.5	39.2	37.4	35.6	33.7	32.5	31.9	31.3
67.5°	36.8	34.3	32.5	31.9	30.6	29.4	27.6	27.0	25.7	25.7	25.7
70°	28.8	27.0	25.1	24.5	23.9	22.7	21.5	21.5	21.5	21.5	21.5
72.5°	21.5	20.2	18.4	17.8	17.2	16.6	15.3	15.9	15.3	15.3	15.3
75°	13.5	12.3	11.0	10.4	9.8	9.2	8.6	8.0	7.4	6.7	6.7
77.5°	7.4	6.1	5.5	4.9	4.9	4.3	3.7	3.7	3.1	3.1	3.1
80°	4.3	3.7	3.1	2.5	2.5	1.8	1.8	1.8	1.8	1.2	1.2
82.5°	2.5	1.8	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
85°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	472.0	472.0	472.0	472.0	472.0	472.0	472.0	472.0
2.5°	468.3	470.1	468.3	470.1	470.1	470.1	470.1	468.3
5°	465.2	466.5	464.6	465.9	466.5	465.9	465.9	464.0
7.5°	459.7	461.0	459.1	461.0	461.6	461.0	460.3	459.1
10°	454.2	454.8	453.0	454.2	455.4	455.4	454.8	453.0
12.5°	445.6	447.5	445.6	446.9	448.1	448.7	448.7	446.9
15°	435.8	438.9	437.7	439.5	441.3	441.9	441.9	441.3
17.5°	426.0	429.1	427.2	430.3	432.1	433.4	434.0	432.8
20°	411.9	415.6	414.4	416.8	419.3	421.1	421.1	419.3
22.5°	393.5	398.4	397.8	399.7	402.7	403.3	404.6	403.3
25°	373.3	377.0	376.4	378.2	381.9	381.9	382.5	382.5
27.5°	350.0	353.7	353.1	354.3	356.7	357.4	358.0	356.7
30°	324.9	326.7	326.7	328.6	330.4	331.0	331.0	329.2
32.5°	297.3	299.7	301.0	300.4	302.2	303.4	302.8	302.8
35°	272.2	272.8	273.4	274.0	274.6	275.8	274.6	274.0
37.5°	245.2	247.0	245.8	247.0	248.3	247.6	247.0	247.0
40°	220.7	221.3	220.1	221.3	221.9	221.9	221.9	220.7
42.5°	196.1	197.4	196.1	197.4	197.4	197.4	197.4	196.8
45°	171.6	172.9	172.9	173.5	173.5	172.9	172.9	172.9
47.5°	149.0	150.2	149.0	150.2	150.8	149.6	149.6	149.6
50°	127.5	126.9	126.9	127.5	127.5	127.5	127.5	126.9
52.5°	105.4	106.0	106.0	106.0	106.7	106.0	106.7	106.7
55°	86.4	86.4	86.4	87.0	86.4	86.4	87.0	87.7
57.5°	69.3	68.7	68.0	68.0	68.7	68.0	68.0	68.0
60°	53.3	52.7	52.1	52.1	52.1	52.1	52.1	51.5
62.5°	39.8	39.8	39.8	40.5	40.5	40.5	40.5	41.1
65°	31.9	31.9	31.9	31.9	31.9	31.9	31.9	32.5
67.5°	25.7	25.7	25.7	26.4	26.4	26.4	26.4	26.4
70°	21.5	21.5	22.1	21.5	22.1	22.1	22.1	22.1
72.5°	14.7	14.7	14.7	14.7	14.7	14.1	14.7	14.1
75°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	5.5
77.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0
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)