

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: P252341

Luminaire Tested: **LD6B10D010 EU6B10209024 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252341
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 EU6B10209024 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 694.0 lumens
Efficiency: N/A
Efficacy: 69.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

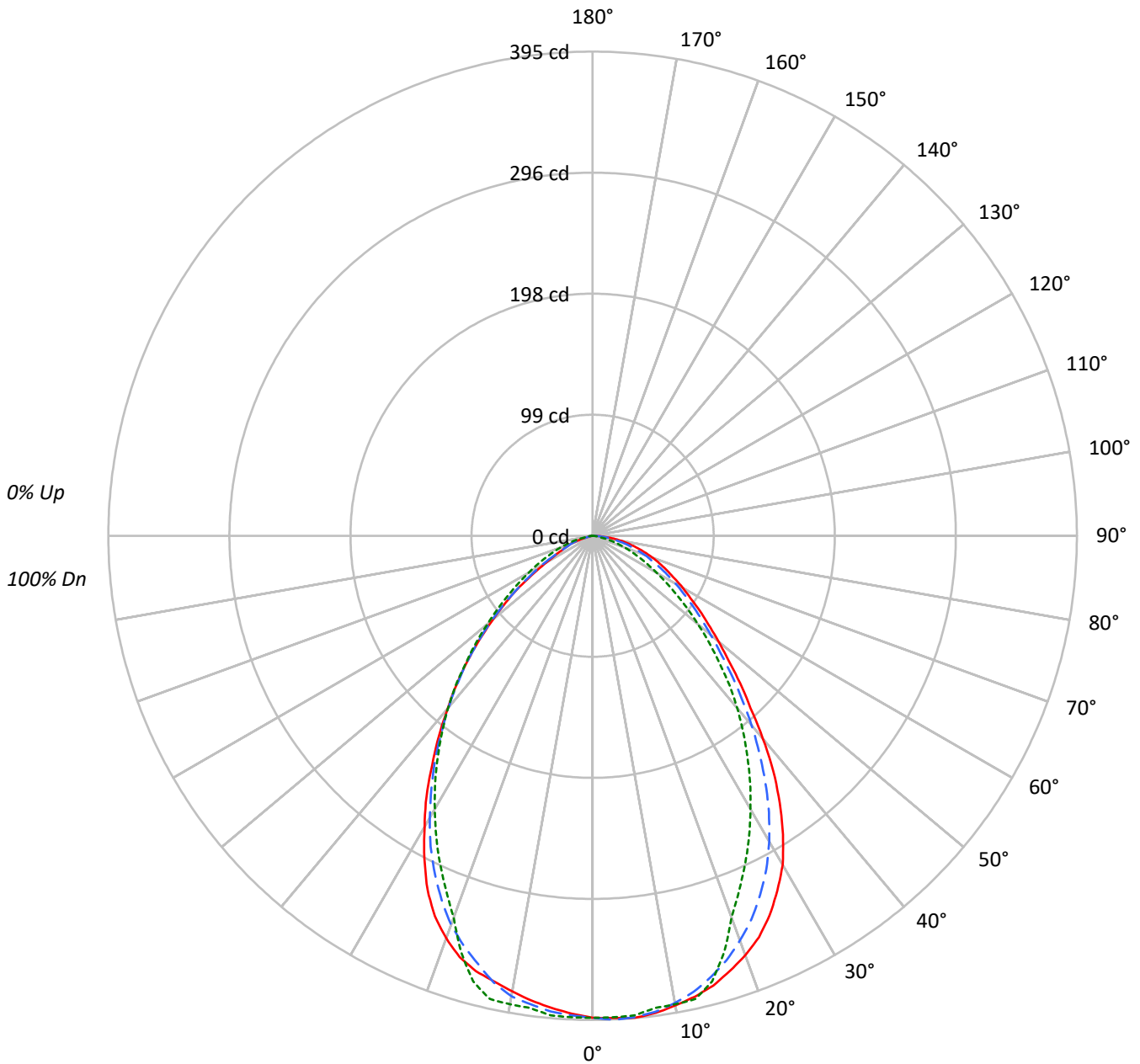
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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°	25653	25653	25653
5°	25855	25718	25318
10°	25777	25710	25002
15°	25659	25423	24835
20°	25279	23008	24251
25°	24590	21214	22942
30°	23353	19391	20656
35°	21193	17530	18183
40°	18396	15611	15653
45°	15694	13424	13286
50°	13580	11347	10728
55°	12136	9463	8303
60°	11065	7868	5598
65°	10328	6468	4183
70°	9843	5265	3510
75°	9276	3731	1160
80°	8829	1916	376
85°	7261	1123	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	37.1	5.4
10°-20°	103.9	15.0
20°-30°	143.4	20.7
30°-40°	145.9	21.0
40°-50°	117.2	16.9
50°-60°	78.0	11.2
60°-70°	44.4	6.4
70°-80°	20.0	2.9
80°-90°	4.2	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°	284.3	41.0
0°-40°	430.2	62.0
0°-60°	625.4	90.1
0°-90°	694.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	694.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	393	393	393	393	393	
5°	395	394	393	390	387	37
15°	380	373	376	362	368	107
25°	342	323	295	304	319	157
35°	266	246	220	224	228	165
45°	170	160	146	144	144	132
55°	107	100	83	74	73	96
65°	67	60	42	27	27	67
75°	37	31	15	6	5	39
85°	10	7	2	0	0	12
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°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
2.5°	393.7	395.8	395.3	394.8	395.3	394.8	393.7	393.7	392.7	392.7	395.3
5°	394.8	395.8	395.3	394.8	394.8	395.3	393.2	393.2	392.2	391.7	394.2
7.5°	392.7	394.2	393.2	393.2	392.7	393.2	391.2	391.2	389.7	389.1	391.7
10°	389.1	391.2	390.2	390.2	390.2	389.1	388.1	387.6	386.1	385.6	387.1
12.5°	385.1	386.6	386.1	385.1	385.1	385.1	383.0	382.5	380.5	379.4	381.0
15°	379.9	381.0	380.5	379.9	378.9	378.9	376.9	375.9	373.8	371.8	372.8
17.5°	372.3	373.8	372.8	372.3	370.8	370.8	368.7	367.7	364.6	362.6	363.1
20°	364.1	364.6	364.1	363.1	361.6	361.1	359.0	357.0	354.4	351.9	351.4
22.5°	354.4	354.9	353.4	352.4	350.8	350.3	347.8	346.2	342.2	339.1	338.6
25°	341.6	342.2	342.2	339.6	338.6	337.6	335.0	332.5	328.9	324.8	323.3
27.5°	326.3	327.9	326.8	324.3	322.2	321.7	319.2	317.1	312.5	309.0	306.9
30°	310.0	309.5	309.0	307.4	304.4	303.9	301.3	298.7	295.2	290.6	288.0
32.5°	289.0	289.0	288.5	287.0	283.9	282.9	280.9	277.8	273.7	270.2	267.6
35°	266.1	266.6	266.1	263.0	261.0	259.9	258.9	255.3	251.8	247.7	245.6
37.5°	242.1	240.5	241.0	238.5	235.9	237.0	233.9	232.4	228.3	225.2	223.2
40°	216.0	217.0	215.0	214.0	212.4	210.9	210.9	208.4	206.3	202.7	201.7
42.5°	190.5	192.0	191.5	190.5	188.4	189.0	186.4	185.4	182.8	181.3	179.8
45°	170.1	170.1	170.1	169.0	168.5	167.5	166.0	164.4	162.9	160.9	159.8
47.5°	150.1	150.1	150.7	149.6	148.6	148.1	147.1	147.1	144.5	142.5	141.5
50°	133.8	133.8	133.8	132.8	131.8	131.8	130.7	129.7	128.2	126.6	125.6
52.5°	119.0	119.0	119.0	118.0	117.5	116.9	116.4	115.9	113.9	112.9	111.8
55°	106.7	106.2	106.2	105.7	104.7	104.7	104.2	103.2	101.6	100.1	99.6
57.5°	94.5	95.0	94.5	94.5	93.5	93.5	92.4	91.9	90.4	89.4	88.3
60°	84.8	84.8	84.8	84.3	83.2	83.8	82.7	82.2	80.7	79.2	78.1
62.5°	75.1	75.6	75.6	75.1	74.0	74.0	73.5	73.0	71.5	70.0	68.4
65°	66.9	66.9	66.9	66.4	65.9	65.9	65.4	64.9	63.3	61.3	59.7
67.5°	59.2	58.7	58.7	58.7	58.2	57.7	57.2	56.7	55.2	53.6	51.6
70°	51.6	51.6	51.6	51.1	50.0	50.6	50.0	49.5	48.0	46.5	44.9
72.5°	44.4	44.4	43.9	43.4	43.4	42.9	42.9	42.4	40.9	38.8	37.3
75°	36.8	36.8	36.8	36.8	35.7	36.3	35.2	34.7	33.7	32.2	30.6
77.5°	30.1	30.1	30.1	29.6	29.1	29.1	28.6	28.1	26.6	25.5	23.5
80°	23.5	23.5	23.5	23.5	23.0	22.5	22.0	21.4	20.4	18.9	17.4
82.5°	17.4	17.4	16.9	16.9	16.9	16.3	15.8	15.3	14.3	13.3	12.3
85°	9.7	10.2	10.2	9.2	9.7	9.2	9.2	8.2	8.2	7.1	6.6
87.5°	3.6	3.1	3.1	3.1	3.1	3.1	3.1	2.6	2.6	2.6	2.0
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°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
2.5°	393.2	392.7	394.8	394.8	391.7	393.2	393.7	392.7	392.7	393.2	391.7
5°	392.2	391.2	393.2	393.7	390.7	392.2	392.7	391.7	392.2	392.7	390.7
7.5°	388.6	388.6	390.2	390.7	387.6	389.1	389.1	388.1	388.6	388.6	387.1
10°	385.1	383.5	385.1	385.1	382.5	383.0	384.0	383.5	385.6	388.1	388.1
12.5°	378.4	376.9	379.4	379.4	377.9	379.9	382.5	384.0	386.1	387.1	384.0
15°	370.2	370.8	375.4	378.9	377.4	380.5	383.0	382.0	379.4	376.4	371.8
17.5°	359.5	358.0	362.1	364.1	362.1	363.1	365.1	363.1	359.0	356.5	350.3
20°	347.3	343.2	343.2	342.2	338.6	338.6	338.1	334.5	333.0	331.4	328.9
22.5°	333.5	328.9	327.3	324.3	321.2	320.7	319.2	315.6	313.6	312.5	309.5
25°	317.6	313.6	311.0	307.9	303.3	302.3	300.8	297.2	296.2	294.7	292.1
27.5°	301.3	296.2	292.6	289.6	285.5	285.0	281.9	279.3	277.3	276.3	274.2
30°	282.4	276.8	274.2	270.2	267.1	266.1	263.5	259.9	258.4	257.4	255.9
32.5°	261.5	256.9	254.3	250.7	246.7	247.2	244.1	241.0	240.0	239.0	237.5
35°	241.0	236.4	233.4	230.3	227.8	226.7	224.7	222.1	220.6	220.1	219.1
37.5°	218.6	215.0	212.4	209.4	207.3	206.3	205.3	202.7	201.7	201.7	199.7
40°	196.6	193.5	191.5	190.0	187.4	186.9	185.9	184.4	183.8	183.3	181.8
42.5°	176.7	172.6	171.1	170.1	168.5	167.5	167.0	166.0	165.5	165.0	163.4
45°	157.8	154.2	152.7	151.7	150.1	149.6	149.1	147.6	146.6	145.5	145.0
47.5°	139.4	136.9	136.4	133.8	132.8	131.8	130.7	129.7	129.2	128.7	126.6
50°	123.6	122.1	119.5	118.0	116.9	116.4	114.4	112.9	112.4	111.8	110.3
52.5°	109.3	107.2	105.7	103.2	102.6	101.6	100.6	98.6	97.5	97.0	95.5
55°	96.5	95.0	92.9	90.9	89.4	88.9	87.3	85.3	84.3	83.2	82.2
57.5°	85.8	83.2	81.2	79.2	78.1	76.6	75.1	74.0	72.5	71.0	69.5
60°	75.6	73.5	71.0	68.9	67.9	66.9	64.9	63.3	61.8	60.3	58.7
62.5°	65.9	63.8	61.3	59.2	58.2	57.2	55.2	53.6	52.1	50.6	48.5
65°	57.2	55.2	53.1	51.1	50.0	49.0	47.0	44.9	43.4	41.9	39.8
67.5°	50.0	47.5	45.5	43.4	42.4	41.4	39.3	37.8	35.7	34.2	32.2
70°	42.4	40.3	38.8	36.8	35.7	34.7	32.7	30.6	29.1	27.6	25.5
72.5°	35.7	33.2	31.7	29.6	28.6	28.1	26.0	24.5	23.0	20.9	19.4
75°	28.6	26.6	24.5	23.0	22.0	21.4	19.4	17.9	16.3	14.8	13.3
77.5°	22.0	20.4	18.4	16.9	15.8	15.3	13.3	11.7	10.2	9.2	7.7
80°	16.3	14.3	13.3	11.7	11.2	10.2	9.2	7.7	6.6	5.1	4.1
82.5°	11.2	9.7	8.7	7.7	7.1	6.6	5.6	4.6	3.6	3.1	2.6
85°	6.1	5.1	4.6	4.1	3.6	3.6	3.1	2.6	2.0	1.5	1.0
87.5°	2.0	1.5	1.5	1.5	1.5	1.0	1.0	1.0	0.5	0.5	0.5
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
2.5°	392.7	392.7	392.7	392.2	392.2	392.2	391.7	393.7	391.7	391.2	392.7
5°	392.2	391.2	391.2	391.2	391.2	390.7	390.2	391.2	389.7	389.1	389.1
7.5°	389.1	388.6	388.6	388.1	387.6	387.1	386.6	387.1	385.6	385.1	385.1
10°	389.7	388.6	388.6	387.1	386.1	384.5	383.0	383.5	381.5	379.9	379.9
12.5°	383.5	381.0	379.4	377.9	376.9	376.4	374.3	375.4	373.3	372.8	372.8
15°	369.7	366.7	364.1	363.1	363.1	362.1	360.5	362.6	361.6	362.1	364.6
17.5°	348.3	346.8	345.2	344.7	345.2	346.2	347.3	350.3	350.3	351.9	354.4
20°	329.4	328.4	329.4	329.4	329.9	331.9	334.0	336.5	337.6	339.1	342.7
22.5°	311.0	311.0	312.0	313.6	313.0	316.6	317.1	321.7	321.7	324.8	327.9
25°	293.1	293.1	294.2	294.7	295.7	297.7	299.8	303.3	304.4	307.4	310.0
27.5°	275.8	275.3	275.3	275.8	276.8	279.3	280.4	284.5	286.0	288.0	290.6
30°	256.4	255.9	256.9	257.9	257.4	259.9	261.5	264.5	265.6	267.6	269.6
32.5°	238.0	238.0	238.0	239.0	239.0	241.0	241.0	244.6	244.6	246.1	248.2
35°	219.1	219.1	219.6	220.1	220.6	221.1	221.6	223.7	224.2	224.7	225.7
37.5°	201.2	200.7	201.2	201.2	200.2	202.2	202.2	204.3	202.7	204.3	204.8
40°	182.8	182.8	182.3	182.3	182.3	183.3	182.3	183.8	182.8	183.8	183.3
42.5°	163.9	163.9	162.9	163.9	163.4	163.4	163.4	164.4	162.9	163.9	164.4
45°	145.0	144.5	144.5	144.0	144.0	144.0	144.5	144.5	144.0	145.0	145.0
47.5°	126.6	126.1	126.1	126.1	126.1	126.6	125.1	126.1	125.1	125.1	125.1
50°	110.8	110.3	109.8	109.3	108.8	108.8	108.3	108.3	107.2	106.7	106.2
52.5°	95.5	95.0	94.0	94.0	93.5	92.9	91.4	91.4	89.9	89.4	89.4
55°	81.7	80.2	79.7	78.6	78.6	77.6	76.6	75.6	74.0	73.0	73.0
57.5°	68.9	67.4	66.4	65.9	65.4	64.3	62.3	61.8	59.7	59.2	58.7
60°	57.7	56.2	54.6	53.6	53.1	51.6	49.5	48.5	47.5	46.0	44.4
62.5°	47.0	45.5	43.4	42.9	41.9	40.3	38.8	37.3	36.3	34.7	33.7
65°	37.8	36.3	34.7	33.7	32.7	31.2	29.6	28.1	27.1	26.6	26.0
67.5°	30.6	28.6	27.1	26.6	25.5	24.5	23.0	22.5	21.4	21.4	21.4
70°	24.0	22.5	20.9	20.4	19.9	18.9	17.9	17.9	17.9	17.9	17.9
72.5°	17.9	16.9	15.3	14.8	14.3	13.8	12.8	13.3	12.8	12.8	12.8
75°	11.2	10.2	9.2	8.7	8.2	7.7	7.1	6.6	6.1	5.6	5.6
77.5°	6.1	5.1	4.6	4.1	4.1	3.6	3.1	3.1	2.6	2.6	2.6
80°	3.6	3.1	2.6	2.0	2.0	1.5	1.5	1.5	1.5	1.0	1.0
82.5°	2.0	1.5	1.0	1.0	1.0	1.0	0.5	0.5	0.5	0.5	0.5
85°	1.0	1.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	393.2	393.2	393.2	393.2	393.2	393.2	393.2	393.2
2.5°	390.2	391.7	390.2	391.7	391.7	391.7	391.7	390.2
5°	387.6	388.6	387.1	388.1	388.6	388.1	388.1	386.6
7.5°	383.0	384.0	382.5	384.0	384.5	384.0	383.5	382.5
10°	378.4	378.9	377.4	378.4	379.4	379.4	378.9	377.4
12.5°	371.3	372.8	371.3	372.3	373.3	373.8	373.8	372.3
15°	363.1	365.6	364.6	366.2	367.7	368.2	368.2	367.7
17.5°	354.9	357.5	355.9	358.5	360.0	361.1	361.6	360.5
20°	343.2	346.2	345.2	347.3	349.3	350.8	350.8	349.3
22.5°	327.9	331.9	331.4	333.0	335.5	336.0	337.1	336.0
25°	311.0	314.1	313.6	315.1	318.2	318.2	318.7	318.7
27.5°	291.6	294.7	294.2	295.2	297.2	297.7	298.2	297.2
30°	270.7	272.2	272.2	273.7	275.3	275.8	275.8	274.2
32.5°	247.7	249.7	250.7	250.2	251.8	252.8	252.3	252.3
35°	226.7	227.3	227.8	228.3	228.8	229.8	228.8	228.3
37.5°	204.3	205.8	204.8	205.8	206.8	206.3	205.8	205.8
40°	183.8	184.4	183.3	184.4	184.9	184.9	184.9	183.8
42.5°	163.4	164.4	163.4	164.4	164.4	164.4	164.4	163.9
45°	143.0	144.0	144.0	144.5	144.5	144.0	144.0	144.0
47.5°	124.1	125.1	124.1	125.1	125.6	124.6	124.6	124.6
50°	106.2	105.7	105.7	106.2	106.2	106.2	106.2	105.7
52.5°	87.8	88.3	88.3	88.3	88.9	88.3	88.9	88.9
55°	72.0	72.0	72.0	72.5	72.0	72.0	72.5	73.0
57.5°	57.7	57.2	56.7	56.7	57.2	56.7	56.7	56.7
60°	44.4	43.9	43.4	43.4	43.4	43.4	43.4	42.9
62.5°	33.2	33.2	33.2	33.7	33.7	33.7	33.7	34.2
65°	26.6	26.6	26.6	26.6	26.6	26.6	26.6	27.1
67.5°	21.4	21.4	21.4	22.0	22.0	22.0	22.0	22.0
70°	17.9	17.9	18.4	17.9	18.4	18.4	18.4	18.4
72.5°	12.3	12.3	12.3	12.3	12.3	11.7	12.3	11.7
75°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	4.6
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	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)