

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: P252347

Luminaire Tested: **LD6B10D010 EU6B10209727 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252347
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 EU6B10209727 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 686.0 lumens
Efficiency: N/A
Efficacy: 68.3 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

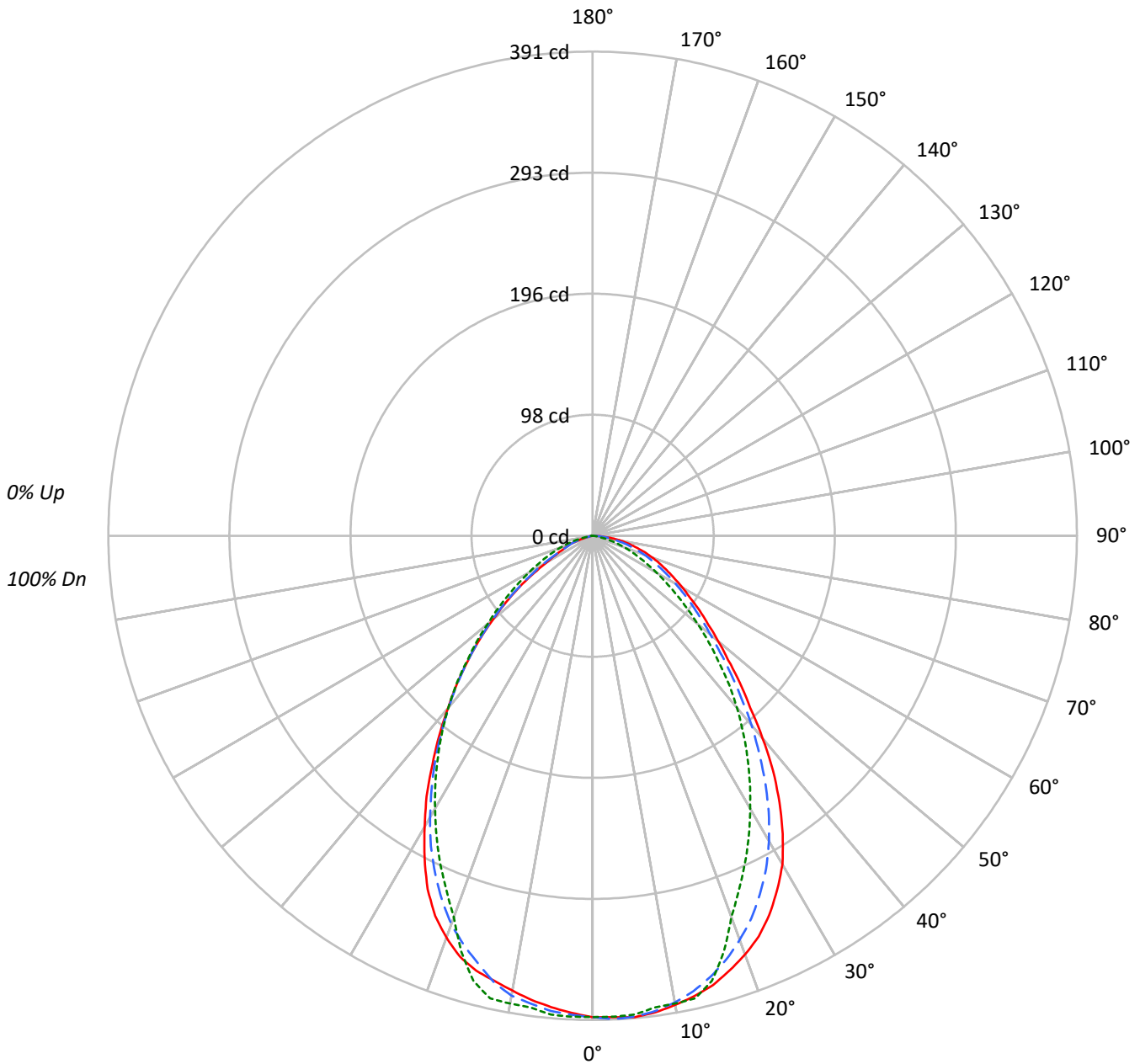
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	25359	25359	25359
5°	25554	25423	25024
10°	25485	25412	24710
15°	25369	25126	24552
20°	24987	22744	23973
25°	24309	20969	22675
30°	23082	19165	20423
35°	20946	17331	17968
40°	18183	15432	15475
45°	15510	13277	13138
50°	13428	11226	10606
55°	12000	9361	8212
60°	10934	7777	5532
65°	10204	6391	4137
70°	9728	5207	3472
75°	9150	3680	1134
80°	8716	1879	376
85°	7186	1123	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	36.7	5.4
10°-20°	102.7	15.0
20°-30°	141.7	20.7
30°-40°	144.2	21.0
40°-50°	115.9	16.9
50°-60°	77.1	11.2
60°-70°	43.9	6.4
70°-80°	19.7	2.9
80°-90°	4.1	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°	281.1	41.0
0°-40°	425.3	62.0
0°-60°	618.2	90.1
0°-90°	686.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	686.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	389	389	389	389	389	
5°	390	390	388	385	382	37
15°	376	368	372	357	364	106
25°	338	320	291	301	315	155
35°	263	243	218	222	226	163
45°	168	158	144	142	142	130
55°	106	98	82	73	72	95
65°	66	59	41	27	27	66
75°	36	30	15	6	4	39
85°	10	7	2	0	0	11
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°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7
2.5°	389.2	391.2	390.7	390.2	390.7	390.2	389.2	389.2	388.2	388.2	390.7
5°	390.2	391.2	390.7	390.2	390.2	390.7	388.7	388.7	387.7	387.2	389.7
7.5°	388.2	389.7	388.7	388.7	388.2	388.7	386.7	386.7	385.2	384.7	387.2
10°	384.7	386.7	385.7	385.7	385.7	384.7	383.6	383.1	381.6	381.1	382.6
12.5°	380.6	382.1	381.6	380.6	380.6	380.6	378.6	378.1	376.1	375.1	376.6
15°	375.6	376.6	376.1	375.6	374.6	374.6	372.5	371.5	369.5	367.5	368.5
17.5°	368.0	369.5	368.5	368.0	366.5	366.5	364.5	363.5	360.4	358.4	358.9
20°	359.9	360.4	359.9	358.9	357.4	356.9	354.9	352.9	350.3	347.8	347.3
22.5°	350.3	350.8	349.3	348.3	346.8	346.3	343.8	342.3	338.2	335.2	334.7
25°	337.7	338.2	338.2	335.7	334.7	333.7	331.1	328.6	325.1	321.1	319.5
27.5°	322.6	324.1	323.1	320.5	318.5	318.0	315.5	313.5	308.9	305.4	303.4
30°	306.4	305.9	305.4	303.9	300.9	300.4	297.8	295.3	291.8	287.2	284.7
32.5°	285.7	285.7	285.2	283.7	280.7	279.7	277.6	274.6	270.6	267.0	264.5
35°	263.0	263.5	263.0	260.0	258.0	256.9	255.9	252.4	248.9	244.8	242.8
37.5°	239.3	237.8	238.3	235.7	233.2	234.2	231.2	229.7	225.6	222.6	220.6
40°	213.5	214.5	212.5	211.5	210.0	208.5	208.5	206.0	203.9	200.4	199.4
42.5°	188.3	189.8	189.3	188.3	186.3	186.8	184.3	183.2	180.7	179.2	177.7
45°	168.1	168.1	168.1	167.1	166.6	165.6	164.1	162.5	161.0	159.0	158.0
47.5°	148.4	148.4	148.9	147.9	146.9	146.4	145.4	145.4	142.9	140.8	139.8
50°	132.3	132.3	132.3	131.2	130.2	130.2	129.2	128.2	126.7	125.2	124.2
52.5°	117.6	117.6	117.6	116.6	116.1	115.6	115.1	114.6	112.6	111.6	110.6
55°	105.5	105.0	105.0	104.5	103.5	103.5	103.0	102.0	100.5	98.9	98.4
57.5°	93.4	93.9	93.4	93.4	92.4	92.4	91.4	90.9	89.3	88.3	87.3
60°	83.8	83.8	83.8	83.3	82.3	82.8	81.8	81.3	79.8	78.2	77.2
62.5°	74.2	74.7	74.7	74.2	73.2	73.2	72.7	72.2	70.7	69.2	67.6
65°	66.1	66.1	66.1	65.6	65.1	65.1	64.6	64.1	62.6	60.6	59.1
67.5°	58.6	58.1	58.1	58.1	57.5	57.0	56.5	56.0	54.5	53.0	51.0
70°	51.0	51.0	51.0	50.5	49.5	50.0	49.5	49.0	47.5	45.9	44.4
72.5°	43.9	43.9	43.4	42.9	42.9	42.4	42.4	41.9	40.4	38.4	36.9
75°	36.3	36.3	36.3	36.3	35.3	35.8	34.8	34.3	33.3	31.8	30.3
77.5°	29.8	29.8	29.8	29.3	28.8	28.8	28.3	27.8	26.2	25.2	23.2
80°	23.2	23.2	23.2	23.2	22.7	22.2	21.7	21.2	20.2	18.7	17.2
82.5°	17.2	17.2	16.7	16.7	16.7	16.2	15.6	15.1	14.1	13.1	12.1
85°	9.6	10.1	10.1	9.1	9.6	9.1	9.1	8.1	8.1	7.1	6.6
87.5°	3.5	3.0	3.0	3.0	3.0	3.0	3.0	2.5	2.5	2.5	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°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7
2.5°	388.7	388.2	390.2	390.2	387.2	388.7	389.2	388.2	388.2	388.7	387.2
5°	387.7	386.7	388.7	389.2	386.2	387.7	388.2	387.2	387.7	388.2	386.2
7.5°	384.2	384.2	385.7	386.2	383.1	384.7	384.7	383.6	384.2	384.2	382.6
10°	380.6	379.1	380.6	380.6	378.1	378.6	379.6	379.1	381.1	383.6	383.6
12.5°	374.1	372.5	375.1	375.1	373.5	375.6	378.1	379.6	381.6	382.6	379.6
15°	366.0	366.5	371.0	374.6	373.0	376.1	378.6	377.6	375.1	372.0	367.5
17.5°	355.4	353.9	357.9	359.9	357.9	358.9	360.9	358.9	354.9	352.3	346.3
20°	343.3	339.2	339.2	338.2	334.7	334.7	334.2	330.6	329.1	327.6	325.1
22.5°	329.6	325.1	323.6	320.5	317.5	317.0	315.5	312.0	309.9	308.9	305.9
25°	314.0	309.9	307.4	304.4	299.8	298.8	297.3	293.8	292.8	291.3	288.7
27.5°	297.8	292.8	289.2	286.2	282.2	281.7	278.6	276.1	274.1	273.1	271.1
30°	279.2	273.6	271.1	267.0	264.0	263.0	260.5	256.9	255.4	254.4	252.9
32.5°	258.5	253.9	251.4	247.9	243.8	244.3	241.3	238.3	237.3	236.2	234.7
35°	238.3	233.7	230.7	227.7	225.1	224.1	222.1	219.6	218.1	217.6	216.6
37.5°	216.1	212.5	210.0	207.0	204.9	203.9	202.9	200.4	199.4	199.4	197.4
40°	194.3	191.3	189.3	187.8	185.3	184.8	183.7	182.2	181.7	181.2	179.7
42.5°	174.7	170.6	169.1	168.1	166.6	165.6	165.1	164.1	163.6	163.0	161.5
45°	156.0	152.4	150.9	149.9	148.4	147.9	147.4	145.9	144.9	143.9	143.4
47.5°	137.8	135.3	134.8	132.3	131.2	130.2	129.2	128.2	127.7	127.2	125.2
50°	122.2	120.6	118.1	116.6	115.6	115.1	113.1	111.6	111.1	110.6	109.0
52.5°	108.0	106.0	104.5	102.0	101.5	100.5	99.4	97.4	96.4	95.9	94.4
55°	95.4	93.9	91.9	89.9	88.3	87.8	86.3	84.3	83.3	82.3	81.3
57.5°	84.8	82.3	80.3	78.2	77.2	75.7	74.2	73.2	71.7	70.2	68.7
60°	74.7	72.7	70.2	68.1	67.1	66.1	64.1	62.6	61.1	59.6	58.1
62.5°	65.1	63.1	60.6	58.6	57.5	56.5	54.5	53.0	51.5	50.0	48.0
65°	56.5	54.5	52.5	50.5	49.5	48.5	46.4	44.4	42.9	41.4	39.4
67.5°	49.5	46.9	44.9	42.9	41.9	40.9	38.9	37.4	35.3	33.8	31.8
70°	41.9	39.9	38.4	36.3	35.3	34.3	32.3	30.3	28.8	27.3	25.2
72.5°	35.3	32.8	31.3	29.3	28.3	27.8	25.7	24.2	22.7	20.7	19.2
75°	28.3	26.2	24.2	22.7	21.7	21.2	19.2	17.7	16.2	14.6	13.1
77.5°	21.7	20.2	18.2	16.7	15.6	15.1	13.1	11.6	10.1	9.1	7.6
80°	16.2	14.1	13.1	11.6	11.1	10.1	9.1	7.6	6.6	5.0	4.0
82.5°	11.1	9.6	8.6	7.6	7.1	6.6	5.6	4.5	3.5	3.0	2.5
85°	6.1	5.0	4.5	4.0	3.5	3.5	3.0	2.5	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°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7
2.5°	388.2	388.2	388.2	387.7	387.7	387.7	387.2	389.2	387.2	386.7	388.2
5°	387.7	386.7	386.7	386.7	386.7	386.2	385.7	386.7	385.2	384.7	384.7
7.5°	384.7	384.2	384.2	383.6	383.1	382.6	382.1	382.6	381.1	380.6	380.6
10°	385.2	384.2	384.2	382.6	381.6	380.1	378.6	379.1	377.1	375.6	375.6
12.5°	379.1	376.6	375.1	373.5	372.5	372.0	370.0	371.0	369.0	368.5	368.5
15°	365.5	362.4	359.9	358.9	358.9	357.9	356.4	358.4	357.4	357.9	360.4
17.5°	344.3	342.8	341.2	340.7	341.2	342.3	343.3	346.3	346.3	347.8	350.3
20°	325.6	324.6	325.6	325.6	326.1	328.1	330.1	332.7	333.7	335.2	338.7
22.5°	307.4	307.4	308.4	309.9	309.4	313.0	313.5	318.0	318.0	321.1	324.1
25°	289.8	289.8	290.8	291.3	292.3	294.3	296.3	299.8	300.9	303.9	306.4
27.5°	272.6	272.1	272.1	272.6	273.6	276.1	277.1	281.2	282.7	284.7	287.2
30°	253.4	252.9	253.9	254.9	254.4	256.9	258.5	261.5	262.5	264.5	266.5
32.5°	235.2	235.2	235.2	236.2	236.2	238.3	238.3	241.8	241.8	243.3	245.3
35°	216.6	216.6	217.1	217.6	218.1	218.6	219.1	221.1	221.6	222.1	223.1
37.5°	198.9	198.4	198.9	198.9	197.9	199.9	199.9	201.9	200.4	201.9	202.4
40°	180.7	180.7	180.2	180.2	180.2	181.2	180.2	181.7	180.7	181.7	181.2
42.5°	162.0	162.0	161.0	162.0	161.5	161.5	161.5	162.5	161.0	162.0	162.5
45°	143.4	142.9	142.9	142.4	142.4	142.4	142.9	142.9	142.4	143.4	143.4
47.5°	125.2	124.7	124.7	124.7	124.7	125.2	123.7	124.7	123.7	123.7	123.7
50°	109.5	109.0	108.5	108.0	107.5	107.5	107.0	107.0	106.0	105.5	105.0
52.5°	94.4	93.9	92.9	92.9	92.4	91.9	90.4	90.4	88.8	88.3	88.3
55°	80.8	79.3	78.7	77.7	77.7	76.7	75.7	74.7	73.2	72.2	72.2
57.5°	68.1	66.6	65.6	65.1	64.6	63.6	61.6	61.1	59.1	58.6	58.1
60°	57.0	55.5	54.0	53.0	52.5	51.0	49.0	48.0	46.9	45.4	43.9
62.5°	46.4	44.9	42.9	42.4	41.4	39.9	38.4	36.9	35.8	34.3	33.3
65°	37.4	35.8	34.3	33.3	32.3	30.8	29.3	27.8	26.8	26.2	25.7
67.5°	30.3	28.3	26.8	26.2	25.2	24.2	22.7	22.2	21.2	21.2	21.2
70°	23.7	22.2	20.7	20.2	19.7	18.7	17.7	17.7	17.7	17.7	17.7
72.5°	17.7	16.7	15.1	14.6	14.1	13.6	12.6	13.1	12.6	12.6	12.6
75°	11.1	10.1	9.1	8.6	8.1	7.6	7.1	6.6	6.1	5.6	5.6
77.5°	6.1	5.0	4.5	4.0	4.0	3.5	3.0	3.0	2.5	2.5	2.5
80°	3.5	3.0	2.5	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°	388.7	388.7	388.7	388.7	388.7	388.7	388.7	388.7
2.5°	385.7	387.2	385.7	387.2	387.2	387.2	387.2	385.7
5°	383.1	384.2	382.6	383.6	384.2	383.6	383.6	382.1
7.5°	378.6	379.6	378.1	379.6	380.1	379.6	379.1	378.1
10°	374.1	374.6	373.0	374.1	375.1	375.1	374.6	373.0
12.5°	367.0	368.5	367.0	368.0	369.0	369.5	369.5	368.0
15°	358.9	361.4	360.4	361.9	363.5	364.0	364.0	363.5
17.5°	350.8	353.4	351.8	354.4	355.9	356.9	357.4	356.4
20°	339.2	342.3	341.2	343.3	345.3	346.8	346.8	345.3
22.5°	324.1	328.1	327.6	329.1	331.7	332.2	333.2	332.2
25°	307.4	310.4	309.9	311.5	314.5	314.5	315.0	315.0
27.5°	288.2	291.3	290.8	291.8	293.8	294.3	294.8	293.8
30°	267.5	269.1	269.1	270.6	272.1	272.6	272.6	271.1
32.5°	244.8	246.8	247.9	247.4	248.9	249.9	249.4	249.4
35°	224.1	224.6	225.1	225.6	226.1	227.2	226.1	225.6
37.5°	201.9	203.4	202.4	203.4	204.4	203.9	203.4	203.4
40°	181.7	182.2	181.2	182.2	182.7	182.7	182.7	181.7
42.5°	161.5	162.5	161.5	162.5	162.5	162.5	162.5	162.0
45°	141.3	142.4	142.4	142.9	142.9	142.4	142.4	142.4
47.5°	122.7	123.7	122.7	123.7	124.2	123.2	123.2	123.2
50°	105.0	104.5	104.5	105.0	105.0	105.0	105.0	104.5
52.5°	86.8	87.3	87.3	87.3	87.8	87.3	87.8	87.8
55°	71.2	71.2	71.2	71.7	71.2	71.2	71.7	72.2
57.5°	57.0	56.5	56.0	56.0	56.5	56.0	56.0	56.0
60°	43.9	43.4	42.9	42.9	42.9	42.9	42.9	42.4
62.5°	32.8	32.8	32.8	33.3	33.3	33.3	33.3	33.8
65°	26.2	26.2	26.2	26.2	26.2	26.2	26.2	26.8
67.5°	21.2	21.2	21.2	21.7	21.7	21.7	21.7	21.7
70°	17.7	17.7	18.2	17.7	18.2	18.2	18.2	18.2
72.5°	12.1	12.1	12.1	12.1	12.1	11.6	12.1	11.6
75°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	4.5
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)