

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: P252660

Luminaire Tested: **LD6B10D010 EU6B10209730 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252660
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209730 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 741.0 lumens
Efficiency: N/A
Efficacy: 73.7 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

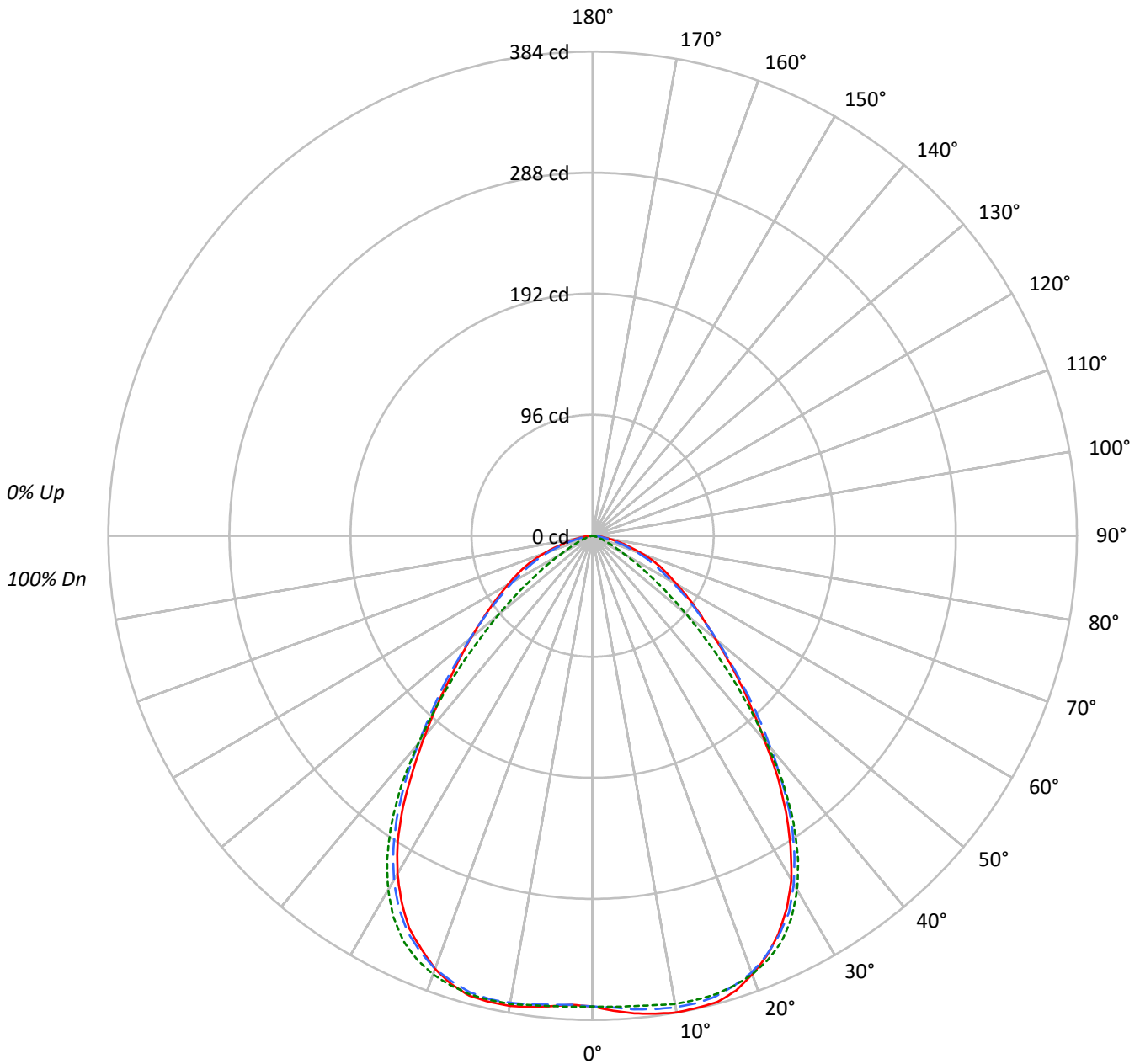
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	109	105	102	99	101	98	96	97	95	93	94	92	91	89																			
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78																			
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68																			
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61																			
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54																			
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48																			
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44																			
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	24354	24354	24354
5°	24899	24519	24519
10°	25432	24975	25081
15°	25855	25430	25504
20°	25702	25702	25369
25°	25087	25540	24748
30°	23745	24423	23308
35°	21281	22125	20859
40°	18081	18302	17629
45°	15297	13987	14762
50°	12920	9865	12758
55°	11352	6370	11226
60°	10060	3784	10125
65°	9293	2285	9293
70°	8050	1316	7859
75°	6377	807	5999
80°	4771	601	4546
85°	4342	374	3967



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.9	4.9
10°-20°	106.4	14.4
20°-30°	160.0	21.6
30°-40°	168.2	22.7
40°-50°	125.7	17.0
50°-60°	78.2	10.6
60°-70°	44.5	6.0
70°-80°	18.3	2.5
80°-90°	3.8	0.5
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°	302.3	40.8
0°-40°	470.5	63.5
0°-60°	674.4	91.0
0°-90°	741.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	741.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	373	373	373	373	373	
5°	380	377	374	373	374	36
15°	383	378	376	375	378	108
25°	348	350	355	347	344	160
35°	267	274	278	270	262	166
45°	166	170	152	166	160	128
55°	100	98	56	96	99	90
65°	60	54	15	54	60	59
75°	25	20	3	20	24	28
85°	6	4	0	3	5	6
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°	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3
2.5°	377.0	376.5	377.0	376.0	375.4	375.4	376.0	374.9	374.4	374.9	374.4
5°	380.2	379.1	379.7	379.1	378.1	378.1	378.6	377.0	377.0	377.6	377.0
7.5°	382.3	382.3	382.3	381.3	380.7	380.2	381.3	379.7	379.1	379.1	378.6
10°	383.9	383.4	383.9	382.8	381.8	381.3	382.3	381.3	380.2	381.3	379.7
12.5°	383.4	383.4	383.4	382.8	381.8	381.3	382.3	380.7	380.2	380.7	379.7
15°	382.8	381.3	381.8	381.3	379.7	379.7	380.2	378.6	377.6	379.1	378.1
17.5°	378.1	377.0	377.6	376.5	375.4	374.9	375.4	374.9	373.9	374.9	373.9
20°	370.2	370.2	370.7	369.6	368.6	368.1	369.1	368.1	367.0	368.6	368.6
22.5°	360.7	360.7	360.7	360.1	359.6	359.6	359.6	359.1	358.5	359.6	360.1
25°	348.5	348.0	348.5	349.0	348.5	348.0	348.5	348.5	347.5	349.6	349.6
27.5°	333.2	333.2	334.3	333.7	333.7	333.2	334.3	334.3	333.7	335.3	336.9
30°	315.2	314.2	315.2	315.2	315.8	315.8	316.3	316.3	316.3	317.9	318.9
32.5°	292.0	292.5	294.1	293.6	293.1	294.7	294.7	295.7	296.2	297.3	297.8
35°	267.2	267.7	267.7	268.2	269.3	268.2	270.9	270.4	270.9	273.0	274.1
37.5°	240.8	239.2	241.8	240.8	241.3	241.3	242.4	242.9	244.5	247.1	247.1
40°	212.3	212.8	213.9	214.4	214.9	214.9	214.9	216.5	217.0	220.2	219.7
42.5°	187.5	187.5	188.5	189.0	189.0	189.0	189.0	190.6	191.7	192.7	193.8
45°	165.8	164.2	165.3	165.3	166.3	165.8	166.9	167.9	168.4	170.0	169.5
47.5°	145.2	144.7	145.2	145.7	145.2	145.7	146.3	146.8	147.3	147.3	147.3
50°	127.3	127.3	127.8	128.3	128.3	128.3	128.3	128.8	128.8	129.9	128.8
52.5°	112.5	113.0	113.0	112.5	113.0	113.0	113.5	113.5	113.0	113.0	111.4
55°	99.8	99.3	99.8	99.3	99.8	99.8	99.3	99.3	98.7	98.2	97.7
57.5°	87.7	87.7	87.7	87.7	87.1	87.7	87.1	86.6	86.6	85.5	84.0
60°	77.1	77.1	77.1	77.1	77.1	76.6	77.1	76.6	75.5	74.5	72.3
62.5°	68.1	67.6	68.1	67.6	67.6	67.1	67.1	66.5	65.5	64.4	62.3
65°	60.2	60.7	60.2	60.2	59.7	59.1	59.1	58.6	57.0	56.0	53.9
67.5°	51.7	51.2	51.2	51.2	50.7	50.7	50.7	49.6	48.6	47.0	44.9
70°	42.2	42.2	42.2	41.7	41.7	41.2	41.2	40.7	39.6	38.5	35.9
72.5°	33.3	33.3	33.3	32.2	32.7	32.2	32.2	31.2	30.6	29.0	27.5
75°	25.3	25.3	24.8	24.8	24.3	23.8	23.8	23.2	22.7	21.7	20.1
77.5°	18.5	18.5	18.5	18.0	17.4	16.9	16.9	16.4	15.8	15.3	14.3
80°	12.7	12.7	12.7	12.7	12.1	11.6	11.6	11.1	11.1	10.6	9.5
82.5°	8.4	8.4	8.4	8.4	7.9	7.9	7.9	7.4	6.9	6.9	5.8
85°	5.8	5.8	5.3	5.3	5.3	5.3	4.8	4.8	4.2	3.7	3.7
87.5°	3.2	3.2	3.2	3.2	2.6	2.6	2.6	2.6	2.1	2.1	1.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3
2.5°	376.0	376.0	375.4	373.9	374.4	373.9	374.4	373.9	372.3	373.9	372.3
5°	378.1	378.6	377.6	375.4	376.0	375.4	375.4	374.9	373.3	374.4	373.3
7.5°	380.2	379.7	379.1	377.0	377.6	377.0	377.0	376.0	374.4	375.4	373.9
10°	381.3	381.3	380.2	378.1	378.1	377.6	378.1	377.6	375.4	377.0	376.0
12.5°	381.3	380.7	380.7	378.1	378.6	378.1	378.6	377.6	376.0	377.0	376.5
15°	379.7	379.7	379.1	376.5	377.0	377.0	377.6	376.5	374.9	376.5	375.4
17.5°	376.5	376.5	376.0	373.9	374.9	374.9	375.4	374.4	372.8	373.9	373.9
20°	370.2	370.7	370.7	369.1	370.2	370.2	370.7	370.2	369.6	370.2	369.1
22.5°	362.8	363.8	363.8	362.2	363.3	363.3	364.9	364.4	363.3	363.8	363.3
25°	351.7	352.7	353.8	352.7	353.8	353.8	355.4	354.8	353.8	354.8	353.3
27.5°	339.0	339.5	340.6	339.5	341.1	340.6	342.2	341.6	340.1	341.6	341.1
30°	321.1	323.2	324.8	323.2	324.8	324.8	325.8	325.3	324.8	324.2	324.2
32.5°	301.0	303.1	303.1	302.6	303.6	303.6	304.2	303.1	302.6	303.1	303.6
35°	276.2	277.2	278.3	277.8	278.3	278.8	278.3	278.8	277.2	277.8	277.8
37.5°	249.2	250.3	250.3	248.7	249.8	249.8	248.7	248.7	247.7	248.7	246.6
40°	220.7	219.7	220.2	219.1	218.1	218.1	217.6	215.4	214.4	214.9	215.4
42.5°	192.7	192.7	191.2	188.5	185.9	185.9	184.3	183.2	181.1	182.2	181.6
45°	169.0	166.3	164.2	160.0	158.4	157.4	154.7	152.1	151.0	151.6	151.0
47.5°	146.3	144.2	138.9	133.1	131.5	129.9	126.7	123.6	122.5	121.5	121.5
50°	127.3	123.6	117.8	111.4	108.8	106.1	101.9	98.7	96.6	97.2	97.2
52.5°	109.8	105.6	98.7	90.8	87.7	84.5	80.8	77.1	75.5	75.0	75.0
55°	94.5	89.8	82.9	73.9	71.3	67.6	62.8	58.6	56.5	56.0	57.0
57.5°	80.8	76.6	68.6	59.7	56.5	52.8	48.1	44.4	41.7	41.2	41.7
60°	69.7	63.9	57.0	48.6	44.4	41.2	35.9	32.7	30.1	29.0	29.6
62.5°	58.6	53.3	46.5	38.0	34.9	31.7	26.9	23.2	21.1	20.6	21.1
65°	50.2	44.9	38.5	31.2	28.0	24.8	20.6	16.9	15.3	14.8	15.3
67.5°	41.7	37.0	31.7	24.8	22.2	19.5	15.3	12.7	10.6	10.0	10.6
70°	33.8	29.6	24.3	19.5	16.9	14.8	11.6	9.0	7.4	6.9	7.4
72.5°	25.3	22.2	18.5	14.3	12.7	11.1	8.4	6.3	5.3	4.8	5.3
75°	18.5	15.8	13.2	10.0	9.0	7.9	5.8	4.2	3.7	3.2	3.7
77.5°	12.7	11.1	9.0	6.9	5.8	5.3	3.7	3.2	2.6	2.1	2.1
80°	8.4	7.4	5.8	4.8	4.2	3.7	2.6	2.1	1.6	1.6	1.6
82.5°	5.3	4.2	3.7	2.6	2.1	2.1	1.6	1.1	1.1	1.1	1.1
85°	3.2	2.6	2.1	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5
87.5°	1.6	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.0	0.0	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°	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3
2.5°	373.3	372.3	372.3	372.8	373.3	373.9	372.8	372.3	372.3	373.9	372.8
5°	373.3	372.8	372.8	372.8	373.9	374.4	373.3	372.8	373.3	374.9	374.4
7.5°	374.9	373.9	374.4	374.4	374.9	376.0	374.9	374.4	374.9	376.5	375.4
10°	376.0	374.9	375.4	374.9	376.5	377.0	376.0	375.4	376.0	378.1	377.6
12.5°	376.5	376.0	376.0	375.4	377.0	377.6	376.5	376.0	376.5	378.1	377.6
15°	375.4	374.9	374.9	374.9	376.0	377.0	375.4	374.9	374.9	376.5	376.0
17.5°	373.3	372.3	372.3	372.3	372.8	373.3	371.7	371.2	370.7	372.3	371.7
20°	369.6	368.6	367.5	367.5	368.1	368.1	367.0	365.4	365.4	365.9	364.9
22.5°	362.8	362.2	361.2	360.7	361.7	361.2	359.1	357.5	357.0	357.5	356.4
25°	353.3	352.2	351.7	351.2	351.7	351.2	349.0	346.9	346.9	346.9	345.3
27.5°	340.1	339.0	338.5	338.5	339.0	338.0	335.8	333.7	332.7	332.7	331.1
30°	323.2	323.2	322.6	322.1	321.6	321.6	318.4	316.3	315.2	315.8	314.7
32.5°	302.6	302.0	301.5	299.9	300.5	299.9	297.3	295.7	294.1	293.1	292.5
35°	276.2	276.2	275.6	275.6	275.6	275.1	272.5	270.9	269.8	269.3	267.7
37.5°	247.1	246.6	246.1	246.1	246.1	246.1	244.5	242.9	242.9	242.4	241.3
40°	214.4	214.9	215.4	214.9	216.5	218.1	216.0	214.9	214.4	216.0	213.9
42.5°	182.7	182.2	184.8	185.3	185.3	188.0	188.5	189.0	188.5	189.6	189.6
45°	152.1	151.6	154.2	155.2	157.9	161.1	162.6	165.3	166.3	167.4	166.3
47.5°	123.0	125.1	127.3	129.9	132.0	137.3	140.5	143.1	144.2	145.7	145.7
50°	98.7	100.9	104.6	106.7	109.3	115.6	120.9	124.6	126.7	128.3	127.8
52.5°	76.0	79.7	84.5	86.6	90.3	97.7	103.5	107.7	110.4	111.9	112.5
55°	58.6	61.8	66.5	69.7	73.4	81.3	88.7	93.5	96.1	98.2	99.3
57.5°	43.3	47.0	52.3	54.9	59.1	68.1	74.5	80.3	83.4	86.1	86.6
60°	31.7	35.4	40.1	43.3	47.5	56.5	63.9	69.2	72.9	75.0	76.0
62.5°	22.7	26.4	31.2	34.3	38.0	45.9	53.3	58.6	62.3	65.0	66.5
65°	16.4	20.1	24.8	27.5	30.6	38.0	44.9	50.2	53.9	57.0	58.1
67.5°	12.1	14.8	19.0	21.7	24.8	30.6	36.4	41.2	44.9	47.5	48.6
70°	9.0	11.1	14.8	16.4	18.5	23.8	28.5	32.7	35.9	38.0	39.1
72.5°	6.3	7.9	10.6	12.1	13.7	18.0	21.7	24.8	26.9	29.0	30.1
75°	4.2	5.3	7.4	8.4	9.5	12.7	15.3	18.0	19.5	21.1	21.7
77.5°	2.6	3.7	5.3	5.8	6.9	8.4	10.6	12.1	13.2	14.3	15.3
80°	1.6	2.1	3.2	3.7	4.2	5.8	6.9	7.9	9.0	10.0	10.6
82.5°	1.1	1.6	2.1	2.1	2.6	3.2	4.2	5.3	5.8	6.3	6.9
85°	0.5	0.5	1.1	1.1	1.6	1.6	2.1	2.6	3.2	3.7	4.2
87.5°	0.5	0.5	0.5	0.5	1.1	1.1	1.6	1.6	1.6	2.1	2.1
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°	373.3	373.3	373.3	373.3	373.3	373.3	373.3	373.3
2.5°	371.7	373.3	371.7	372.8	372.3	372.3	371.7	372.3
5°	373.3	375.4	373.3	374.9	373.9	373.9	373.9	374.4
7.5°	374.9	377.0	375.4	377.0	376.5	376.0	376.0	377.0
10°	376.5	378.1	377.0	378.6	378.1	377.6	377.6	378.6
12.5°	376.5	378.6	377.6	379.1	378.6	378.1	378.1	378.6
15°	374.9	377.6	376.0	377.6	377.0	376.5	376.5	377.6
17.5°	370.2	372.3	371.2	372.3	372.3	371.7	372.3	372.8
20°	363.8	365.4	364.4	365.4	365.4	364.4	364.9	365.4
22.5°	354.8	356.4	355.4	356.4	355.9	355.4	355.4	354.8
25°	343.8	345.9	344.3	345.3	344.3	343.2	343.2	343.8
27.5°	330.0	331.6	329.5	330.6	329.5	328.4	328.4	327.9
30°	312.1	312.6	311.0	312.1	311.0	310.5	309.4	309.4
32.5°	290.4	291.0	289.4	289.4	288.3	288.3	286.2	287.8
35°	265.1	265.6	265.1	264.6	263.0	262.4	261.9	261.9
37.5°	238.7	238.7	237.1	236.6	235.5	234.5	235.0	233.4
40°	211.7	211.2	209.6	210.2	209.6	208.1	207.5	207.0
42.5°	186.4	186.4	184.8	185.3	184.3	183.8	182.2	182.7
45°	164.2	164.2	162.6	162.6	162.1	160.5	161.1	160.0
47.5°	144.2	144.2	143.6	143.6	142.0	141.5	141.5	141.5
50°	126.7	126.7	126.7	126.7	126.2	125.7	125.1	125.7
52.5°	111.9	113.0	112.5	112.5	111.9	111.4	110.9	110.9
55°	98.7	99.3	99.3	99.8	99.3	98.7	99.3	98.7
57.5°	87.1	88.2	88.2	88.2	88.2	88.2	87.7	87.1
60°	77.1	77.6	77.6	78.2	78.2	78.2	77.6	77.6
62.5°	67.1	68.1	68.6	68.6	69.2	68.6	68.6	68.6
65°	59.1	60.2	60.7	60.2	60.7	60.7	60.2	60.2
67.5°	49.6	50.7	50.7	50.7	50.7	51.2	50.7	50.7
70°	40.1	41.2	40.7	41.2	41.2	41.2	41.2	41.2
72.5°	30.6	31.2	31.7	31.7	32.2	31.7	31.7	31.7
75°	22.2	23.2	23.2	23.2	23.2	23.8	23.8	23.8
77.5°	15.8	16.4	16.4	16.9	16.9	16.9	16.9	17.4
80°	11.1	11.1	11.6	11.6	12.1	12.1	12.1	12.1
82.5°	7.4	7.9	7.9	7.9	7.9	7.9	7.9	7.9
85°	4.2	4.8	4.8	4.8	4.8	5.3	5.3	5.3
87.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.1	2.1
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)