

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: P252441

Luminaire Tested: **LD6B10D010 EU6B10208030 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252441
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10208030 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 903.0 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

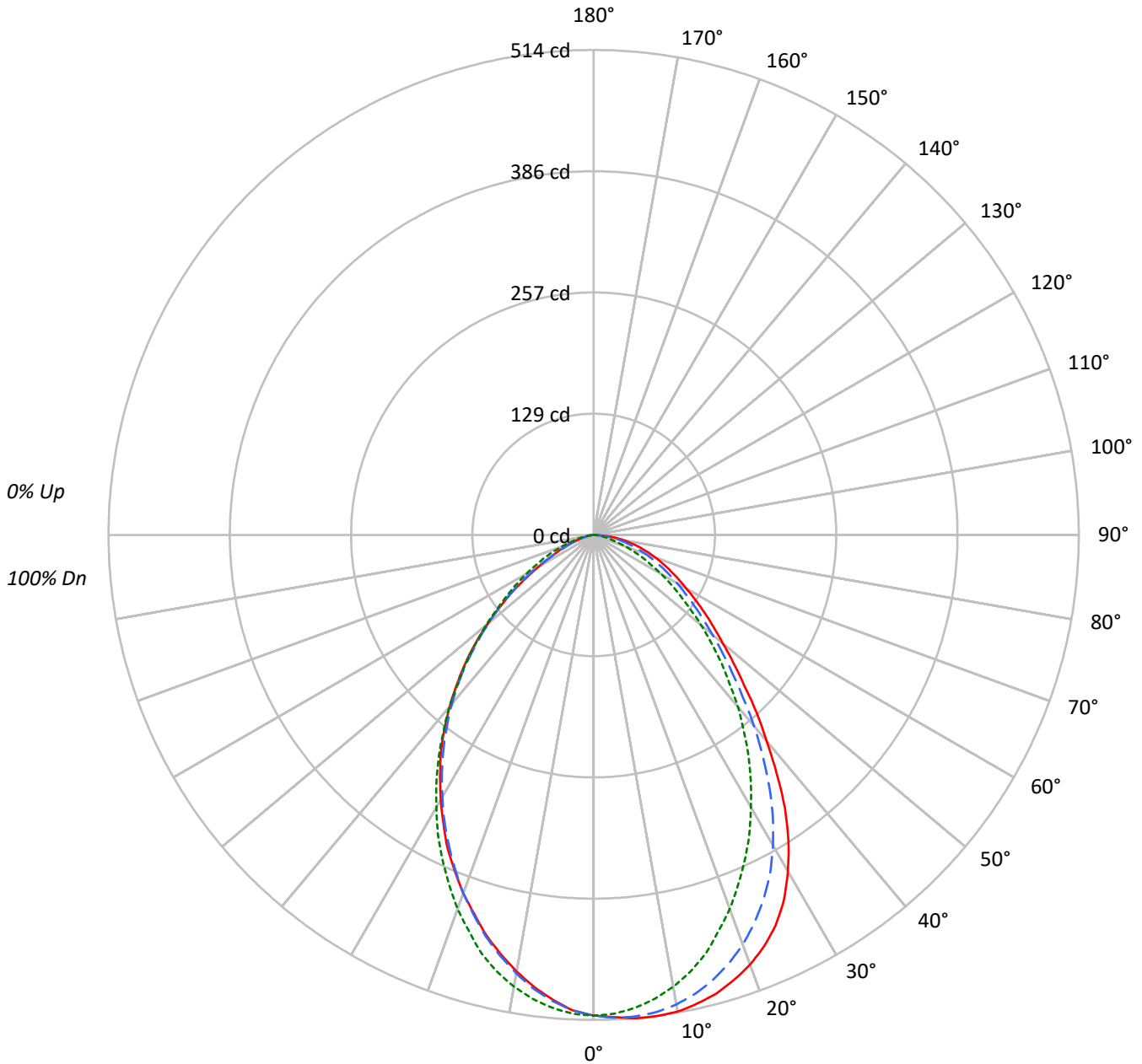
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59				
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39				
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33				

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	33234	33234	33234
5°	33688	32948	32391
10°	33985	32203	31123
15°	33980	31015	29678
20°	33652	29278	28049
25°	32854	27297	26383
30°	31022	25101	24416
35°	28122	22762	22484
40°	24281	20244	20184
45°	20824	17622	17752
50°	18097	15082	14869
55°	16254	12717	11909
60°	14770	10713	8768
65°	13878	8846	6437
70°	13219	6886	4731
75°	12654	4991	3201
80°	11947	3456	2142
85°	10629	2096	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.6	5.3
10°-20°	130.5	14.5
20°-30°	181.2	20.1
30°-40°	187.7	20.8
40°-50°	154.2	17.1
50°-60°	106.0	11.7
60°-70°	60.9	6.7
70°-80°	28.0	3.1
80°-90°	6.8	0.8
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°	359.4	39.8
0°-40°	547.0	60.6
0°-60°	807.2	89.4
0°-90°	903.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	903.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	509	509	509	509	509	
5°	514	512	503	496	495	49
15°	503	488	459	441	439	142
25°	456	426	379	363	366	209
35°	353	324	286	277	282	219
45°	226	209	191	189	192	176
55°	143	130	112	105	105	129
65°	90	78	57	40	42	89
75°	50	40	20	13	13	53
85°	14	10	3	1	1	16
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°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	511.5	515.8	513.0	512.3	513.7	513.7	513.7	511.5	513.0	510.8	512.3
5°	514.4	517.9	515.1	513.7	515.1	515.8	513.7	512.3	514.4	511.5	512.3
7.5°	514.4	517.9	515.1	514.4	515.1	515.1	514.4	511.5	513.0	510.1	510.1
10°	513.0	515.8	513.0	511.5	512.3	511.5	511.5	508.0	508.7	505.2	505.2
12.5°	508.7	512.3	508.7	507.3	507.3	507.3	505.2	502.4	503.1	498.8	498.1
15°	503.1	505.9	502.4	500.9	500.9	500.2	498.8	494.6	494.6	490.3	488.2
17.5°	494.6	497.4	494.6	492.4	491.7	490.3	488.9	484.7	483.2	478.3	476.2
20°	484.7	486.8	484.0	481.8	480.4	479.0	476.2	471.9	470.5	465.6	462.0
22.5°	471.9	474.8	470.5	468.4	467.0	464.9	462.0	457.8	455.7	449.3	445.0
25°	456.4	457.8	454.2	452.1	449.3	447.9	445.7	440.1	438.0	430.9	425.9
27.5°	436.5	438.0	433.7	432.3	428.8	427.4	424.5	419.6	416.7	409.7	404.7
30°	411.8	413.2	410.4	408.2	405.4	402.6	400.5	395.5	391.3	384.2	379.9
32.5°	384.2	386.3	383.5	380.7	375.7	376.4	372.9	367.9	364.4	358.0	353.1
35°	353.1	354.5	350.9	350.2	347.4	344.6	341.0	337.5	335.4	328.3	324.1
37.5°	318.4	321.9	318.4	315.6	314.1	312.0	309.9	304.9	303.5	299.3	293.6
40°	285.1	287.3	285.1	282.3	280.2	280.2	277.4	274.5	271.0	266.7	264.6
42.5°	255.4	254.0	253.3	251.9	249.1	248.3	247.6	244.1	242.0	237.7	234.2
45°	225.7	226.4	225.0	224.3	222.2	220.8	219.3	216.5	215.8	211.6	208.7
47.5°	200.9	200.2	198.8	198.8	197.4	196.0	194.6	192.4	191.7	188.2	185.4
50°	178.3	179.0	178.3	177.6	175.5	174.8	173.3	171.9	170.5	167.0	164.1
52.5°	159.9	159.2	158.5	158.5	156.4	155.7	154.2	152.8	151.4	147.9	145.8
55°	142.9	142.9	142.2	141.5	139.4	138.7	138.0	136.6	134.4	131.6	129.5
57.5°	127.4	127.4	126.6	125.9	124.5	124.5	123.1	121.7	120.3	117.5	114.6
60°	113.2	113.9	113.2	112.5	111.1	111.1	110.4	108.3	107.5	104.0	101.9
62.5°	101.2	101.2	101.2	100.5	99.8	98.3	98.3	96.2	94.8	92.7	89.9
65°	89.9	89.9	89.9	89.1	87.7	87.0	86.3	84.9	83.5	81.4	78.5
67.5°	79.2	79.2	79.2	78.5	77.1	76.4	75.7	75.0	72.9	70.8	67.9
70°	69.3	69.3	68.6	67.9	67.2	66.5	65.8	64.4	63.0	60.1	58.0
72.5°	59.4	59.4	59.4	58.0	57.3	57.3	55.9	55.2	53.8	50.9	48.8
75°	50.2	49.5	49.5	48.8	48.1	47.4	46.7	46.0	43.9	42.5	39.6
77.5°	41.0	41.0	40.3	39.6	39.6	38.9	38.2	36.8	36.1	34.0	31.8
80°	31.8	31.8	31.8	31.8	31.1	30.4	30.4	29.0	28.3	26.2	24.8
82.5°	24.1	23.3	23.3	23.3	22.6	21.9	21.9	21.2	20.5	19.1	17.7
85°	14.2	13.4	13.4	13.4	12.7	12.7	12.0	12.0	11.3	9.9	9.9
87.5°	4.2	4.2	5.0	5.0	4.2	4.2	4.2	4.2	4.2	3.5	3.5
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°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	510.8	513.0	510.1	509.4	512.3	510.8	510.1	508.7	509.4	508.0	505.9
5°	510.1	513.0	509.4	507.3	510.8	508.7	507.3	505.9	505.9	503.1	501.6
7.5°	508.0	509.4	505.9	503.8	505.9	503.8	502.4	500.2	499.5	496.0	493.9
10°	502.4	503.8	499.5	496.7	498.8	496.0	493.9	491.7	490.3	486.1	483.2
12.5°	494.6	495.3	490.3	486.8	488.2	486.1	482.5	479.7	478.3	474.0	470.5
15°	484.0	484.7	479.0	474.0	475.5	472.6	468.4	465.6	463.4	459.2	454.2
17.5°	471.2	470.5	464.1	459.2	459.9	456.4	452.1	447.9	445.0	440.1	436.5
20°	457.1	454.9	447.9	442.2	442.9	438.7	433.7	429.5	425.9	421.7	416.7
22.5°	439.4	436.5	430.2	423.1	423.8	420.3	413.2	409.7	406.1	400.5	396.2
25°	420.3	416.0	409.7	402.6	402.6	398.3	392.7	388.4	384.9	379.2	374.3
27.5°	397.6	395.5	387.0	381.4	380.7	376.4	371.5	366.5	362.3	357.3	352.4
30°	372.9	369.3	363.0	356.6	355.2	351.6	346.7	341.0	338.2	333.2	329.0
32.5°	346.7	343.2	336.1	329.7	329.0	326.2	321.9	316.3	313.4	309.9	307.1
35°	317.0	315.6	308.5	303.5	303.5	300.7	296.5	291.5	289.4	285.8	282.3
37.5°	288.7	286.6	280.2	275.9	275.9	272.4	268.2	266.0	263.9	261.1	259.0
40°	259.0	257.5	252.6	248.3	249.1	246.2	243.4	240.6	239.1	237.7	235.6
42.5°	231.4	229.9	226.4	222.9	222.9	220.8	217.9	215.8	214.4	212.3	211.6
45°	206.6	204.5	201.6	198.1	198.1	196.0	194.6	193.2	192.4	191.0	188.9
47.5°	182.5	181.1	178.3	174.8	174.8	174.8	171.9	169.8	169.8	168.4	167.7
50°	162.0	159.9	157.8	155.0	155.0	153.5	151.4	149.3	149.3	148.6	147.2
52.5°	142.9	141.5	138.7	135.8	135.8	134.4	132.3	131.6	130.9	128.8	128.1
55°	126.6	125.2	123.1	119.6	118.9	118.2	116.0	114.6	113.9	111.8	111.8
57.5°	111.8	110.4	106.8	104.7	104.0	102.6	100.5	99.1	98.3	96.9	95.5
60°	99.1	96.9	94.1	91.3	90.6	89.1	87.0	85.6	84.9	82.1	80.7
62.5°	87.0	84.9	82.1	79.2	78.5	77.1	74.3	72.9	71.5	68.6	67.2
65°	75.7	73.6	70.8	67.9	66.5	65.8	63.0	60.8	59.4	57.3	54.5
67.5°	65.1	63.0	60.1	56.6	56.6	54.5	52.4	50.2	48.1	46.0	43.9
70°	55.2	53.1	50.2	47.4	46.7	45.3	43.2	40.3	38.9	36.1	34.0
72.5°	46.0	43.9	41.0	38.2	37.5	36.1	34.0	31.1	29.0	26.9	24.8
75°	37.5	35.4	32.5	30.4	29.7	28.3	26.2	23.3	21.2	19.8	17.7
77.5°	29.7	27.6	25.5	23.3	22.6	21.2	19.1	17.7	15.6	14.2	12.0
80°	22.6	21.2	19.1	17.7	17.0	15.6	14.2	12.0	10.6	9.2	8.5
82.5°	16.3	14.9	13.4	11.3	11.3	9.9	9.2	7.8	6.4	5.7	5.0
85°	9.2	7.8	7.1	6.4	5.7	5.7	5.0	4.2	3.5	2.8	2.8
87.5°	2.8	2.8	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4	1.4
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°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	505.9	506.6	505.2	506.6	505.2	505.9	504.5	505.9	504.5	505.9	503.1
5°	500.9	500.9	498.8	500.2	498.8	499.5	496.7	497.4	496.0	497.4	494.6
7.5°	492.4	493.2	489.6	491.0	488.9	488.9	486.8	487.5	485.4	486.1	484.0
10°	482.5	481.8	478.3	479.7	476.9	476.9	474.8	474.8	471.9	472.6	469.8
12.5°	468.4	467.7	463.4	464.9	462.0	462.0	459.9	459.9	457.1	458.5	455.7
15°	452.1	451.4	447.2	447.9	445.0	445.0	442.2	442.9	440.8	442.2	439.4
17.5°	433.7	433.0	428.8	429.5	425.9	426.6	424.5	423.8	422.4	423.1	421.0
20°	414.6	413.2	409.0	409.7	408.2	406.1	404.7	405.4	404.0	405.4	403.3
22.5°	394.8	392.0	388.4	388.4	387.0	387.0	384.9	386.3	383.5	385.6	384.2
25°	372.2	370.0	367.2	368.6	365.8	365.8	363.7	364.4	363.0	364.4	363.0
27.5°	350.2	348.8	344.6	346.0	343.9	344.6	342.4	343.2	342.4	343.9	342.4
30°	326.9	326.2	323.3	323.3	322.6	321.9	321.2	321.2	320.5	322.6	321.2
32.5°	304.9	302.8	300.0	302.1	298.6	300.7	299.3	300.7	299.3	300.7	300.0
35°	282.3	281.6	278.1	278.8	278.1	278.1	277.4	277.4	277.4	279.5	279.5
37.5°	258.3	257.5	255.4	256.1	254.7	254.0	254.0	255.4	255.4	256.8	256.8
40°	234.9	235.6	233.5	233.5	232.8	232.8	232.8	234.2	233.5	234.9	234.2
42.5°	211.6	211.6	209.4	210.1	209.4	210.1	210.1	211.6	211.6	212.3	211.6
45°	189.6	189.6	188.9	189.6	188.2	188.9	188.2	189.6	188.9	189.6	189.6
47.5°	167.7	167.7	167.7	167.0	167.0	167.0	167.0	167.0	166.3	167.7	167.0
50°	147.2	147.9	147.2	147.2	146.5	147.2	146.5	146.5	145.0	145.8	145.8
52.5°	128.8	128.8	127.4	127.4	127.4	126.6	126.6	126.6	125.9	125.9	124.5
55°	111.1	111.1	109.7	109.7	109.0	108.3	107.5	107.5	105.4	105.4	103.3
57.5°	94.8	94.1	92.0	92.0	90.6	89.9	89.1	88.4	87.0	85.6	84.9
60°	80.0	78.5	77.1	76.4	75.0	73.6	72.2	70.8	69.3	68.6	67.9
62.5°	65.8	63.7	62.3	61.6	60.1	58.0	56.6	55.2	53.8	53.1	51.7
65°	53.1	50.9	48.8	48.1	46.7	45.3	43.2	41.7	40.3	39.6	39.6
67.5°	41.7	39.6	36.8	36.8	35.4	34.0	32.5	31.1	30.4	31.1	31.1
70°	31.1	29.7	27.6	26.9	25.5	24.1	23.3	23.3	23.3	24.1	23.3
72.5°	23.3	21.2	19.8	19.1	18.4	17.7	17.7	17.7	17.0	17.7	17.7
75°	16.3	14.9	13.4	13.4	12.7	12.7	12.7	12.7	12.7	12.7	12.7
77.5°	11.3	9.9	9.2	9.2	9.2	8.5	8.5	8.5	8.5	8.5	8.5
80°	7.1	7.1	6.4	6.4	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	4.2	4.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	1.4	1.4	1.4
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°	509.4	509.4	509.4	509.4	509.4	509.4	509.4	509.4
2.5°	503.1	505.2	502.4	504.5	503.8	503.1	501.6	504.5
5°	494.6	495.3	492.4	495.3	494.6	493.2	491.7	494.6
7.5°	482.5	484.7	481.1	484.0	483.2	481.8	480.4	483.2
10°	469.1	471.2	468.4	470.5	470.5	469.1	467.0	469.8
12.5°	454.2	455.7	452.8	455.7	454.9	453.5	452.8	454.9
15°	438.0	440.1	437.3	439.4	438.7	438.0	437.3	439.4
17.5°	420.3	422.4	420.3	422.4	422.4	420.3	419.6	421.0
20°	402.6	404.0	401.9	404.0	403.3	403.3	401.9	404.0
22.5°	382.8	384.9	383.5	384.9	384.2	384.2	383.5	384.9
25°	363.0	365.1	363.0	365.1	364.4	364.4	363.0	366.5
27.5°	343.2	344.6	342.4	345.3	344.6	343.2	343.9	344.6
30°	321.9	323.3	321.9	324.1	324.1	324.1	322.6	324.1
32.5°	300.7	302.8	300.7	302.8	302.1	302.1	301.4	302.8
35°	279.5	280.2	278.8	280.9	280.9	281.6	280.2	282.3
37.5°	257.5	258.3	257.5	258.3	259.7	257.5	259.0	259.7
40°	234.9	236.3	235.6	236.3	236.3	237.0	236.3	237.0
42.5°	212.3	213.7	212.3	214.4	213.7	213.7	214.4	214.4
45°	188.9	191.0	189.6	191.0	191.7	191.0	191.0	192.4
47.5°	167.0	168.4	167.7	168.4	168.4	168.4	168.4	169.8
50°	145.0	145.8	145.8	146.5	146.5	147.2	145.8	146.5
52.5°	123.1	124.5	124.5	124.5	123.8	124.5	124.5	124.5
55°	103.3	104.0	102.6	104.0	104.0	103.3	103.3	104.7
57.5°	84.2	84.2	84.2	84.2	84.2	83.5	84.2	84.2
60°	66.5	67.2	66.5	66.5	66.5	66.5	65.8	67.2
62.5°	51.7	51.7	50.9	51.7	51.7	51.7	52.4	52.4
65°	40.3	41.0	40.3	41.0	41.0	41.0	41.0	41.7
67.5°	31.8	31.8	31.8	31.8	31.8	31.8	31.8	31.8
70°	24.1	24.1	24.1	24.8	24.1	24.1	24.1	24.8
72.5°	17.7	17.7	17.7	17.7	17.7	17.7	18.4	18.4
75°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
77.5°	8.5	8.5	8.5	9.2	8.5	9.2	8.5	8.5
80°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7
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)