

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: P252462

Luminaire Tested: **LD6B15D010 EU6B10209040 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252462
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: LD6B15D010 EU6B10209040 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1080.0 lumens
Efficiency: N/A
Efficacy: 75.1 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

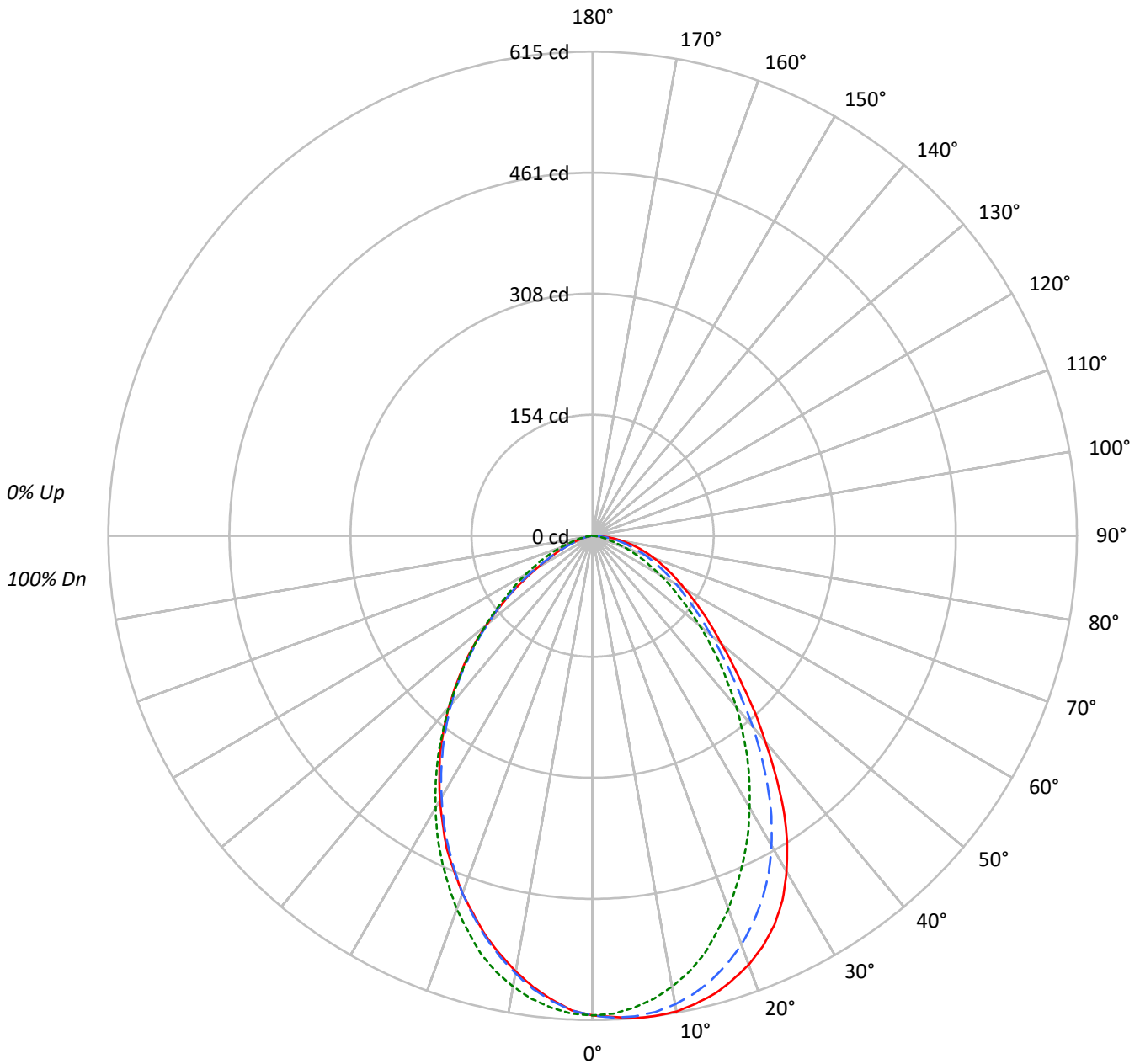
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39751	39751	39751
5°	40289	39405	38737
10°	40643	38516	37224
15°	40640	37094	35493
20°	40247	35012	33547
25°	39289	32652	31551
30°	37102	30028	29199
35°	33634	27230	26888
40°	29041	24213	24144
45°	24902	21082	21239
50°	21639	18036	17782
55°	19439	15208	14241
60°	17667	12813	10491
65°	16595	10575	7703
70°	15813	8240	5646
75°	15149	5974	3831
80°	14314	4133	2555
85°	12651	2545	1273



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.0	5.3
10°-20°	156.1	14.5
20°-30°	216.7	20.1
30°-40°	224.5	20.8
40°-50°	184.4	17.1
50°-60°	126.8	11.7
60°-70°	72.9	6.7
70°-80°	33.5	3.1
80°-90°	8.2	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°	429.8	39.8
0°-40°	654.2	60.6
0°-60°	965.5	89.4
0°-90°	1080.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1080.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	609	609	609	609	609	
5°	615	613	602	593	592	59
15°	602	584	549	527	526	169
25°	546	509	454	434	438	250
35°	422	388	342	332	338	262
45°	270	250	228	226	230	210
55°	171	155	134	126	125	154
65°	108	94	68	48	50	107
75°	60	47	24	15	15	64
85°	17	12	3	2	2	19
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°	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
2.5°	611.8	616.9	613.5	612.7	614.4	614.4	614.4	611.8	613.5	611.0	612.7
5°	615.2	619.4	616.0	614.4	616.0	616.9	614.4	612.7	615.2	611.8	612.7
7.5°	615.2	619.4	616.0	615.2	616.0	616.0	615.2	611.8	613.5	610.1	610.1
10°	613.5	616.9	613.5	611.8	612.7	611.8	611.8	607.6	608.4	604.2	604.2
12.5°	608.4	612.7	608.4	606.7	606.7	606.7	604.2	600.8	601.7	596.6	595.7
15°	601.7	605.0	600.8	599.1	599.1	598.3	596.6	591.5	591.5	586.4	583.9
17.5°	591.5	594.9	591.5	589.0	588.1	586.4	584.7	579.7	578.0	572.0	569.5
20°	579.7	582.2	578.8	576.3	574.6	572.9	569.5	564.4	562.7	556.8	552.6
22.5°	564.4	567.8	562.7	560.2	558.5	556.0	552.6	547.5	545.0	537.4	532.3
25°	545.8	547.5	543.3	540.7	537.4	535.7	533.1	526.4	523.8	515.3	509.4
27.5°	522.1	523.8	518.7	517.0	512.8	511.1	507.7	501.8	498.4	490.0	484.0
30°	492.5	494.2	490.8	488.3	484.9	481.5	479.0	473.0	468.0	459.5	454.4
32.5°	459.5	462.0	458.7	455.3	449.3	450.2	446.0	440.0	435.8	428.2	422.3
35°	422.3	424.0	419.7	418.9	415.5	412.1	407.9	403.6	401.1	392.6	387.6
37.5°	380.8	385.0	380.8	377.4	375.7	373.2	370.6	364.7	363.0	358.0	351.2
40°	341.0	343.6	341.0	337.6	335.1	335.1	331.7	328.3	324.1	319.0	316.5
42.5°	305.5	303.8	302.9	301.3	297.9	297.0	296.2	291.9	289.4	284.3	280.1
45°	269.9	270.8	269.1	268.3	265.7	264.0	262.3	258.9	258.1	253.0	249.6
47.5°	240.3	239.5	237.8	237.8	236.1	234.4	232.7	230.2	229.3	225.1	221.7
50°	213.2	214.1	213.2	212.4	209.9	209.0	207.3	205.6	203.9	199.7	196.3
52.5°	191.2	190.4	189.6	189.6	187.0	186.2	184.5	182.8	181.1	176.9	174.3
55°	170.9	170.9	170.1	169.2	166.7	165.9	165.0	163.3	160.8	157.4	154.9
57.5°	152.3	152.3	151.5	150.6	148.9	148.9	147.2	145.6	143.9	140.5	137.1
60°	135.4	136.2	135.4	134.5	132.9	132.9	132.0	129.5	128.6	124.4	121.9
62.5°	121.0	121.0	121.0	120.2	119.3	117.6	117.6	115.1	113.4	110.9	107.5
65°	107.5	107.5	107.5	106.6	104.9	104.1	103.2	101.5	99.9	97.3	93.9
67.5°	94.8	94.8	94.8	93.9	92.2	91.4	90.5	89.7	87.2	84.6	81.2
70°	82.9	82.9	82.1	81.2	80.4	79.5	78.7	77.0	75.3	71.9	69.4
72.5°	71.1	71.1	71.1	69.4	68.5	68.5	66.9	66.0	64.3	60.9	58.4
75°	60.1	59.2	59.2	58.4	57.5	56.7	55.9	55.0	52.5	50.8	47.4
77.5°	49.1	49.1	48.2	47.4	47.4	46.5	45.7	44.0	43.2	40.6	38.1
80°	38.1	38.1	38.1	38.1	37.2	36.4	36.4	34.7	33.8	31.3	29.6
82.5°	28.8	27.9	27.9	27.9	27.1	26.2	26.2	25.4	24.5	22.8	21.2
85°	16.9	16.1	16.1	16.1	15.2	15.2	14.4	14.4	13.5	11.8	11.8
87.5°	5.1	5.1	5.9	5.9	5.1	5.1	5.1	5.1	5.1	4.2	4.2
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°	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
2.5°	611.0	613.5	610.1	609.3	612.7	611.0	610.1	608.4	609.3	607.6	605.0
5°	610.1	613.5	609.3	606.7	611.0	608.4	606.7	605.0	605.0	601.7	600.0
7.5°	607.6	609.3	605.0	602.5	605.0	602.5	600.8	598.3	597.4	593.2	590.7
10°	600.8	602.5	597.4	594.0	596.6	593.2	590.7	588.1	586.4	581.4	578.0
12.5°	591.5	592.4	586.4	582.2	583.9	581.4	577.1	573.7	572.0	567.0	562.7
15°	578.8	579.7	572.9	567.0	568.7	565.3	560.2	556.8	554.3	549.2	543.3
17.5°	563.6	562.7	555.1	549.2	550.0	545.8	540.7	535.7	532.3	526.4	522.1
20°	546.7	544.1	535.7	528.9	529.7	524.7	518.7	513.7	509.4	504.3	498.4
22.5°	525.5	522.1	514.5	506.0	506.9	502.7	494.2	490.0	485.7	479.0	473.9
25°	502.7	497.6	490.0	481.5	481.5	476.4	469.7	464.6	460.3	453.6	447.7
27.5°	475.6	473.0	462.9	456.1	455.3	450.2	444.3	438.3	433.3	427.3	421.4
30°	446.0	441.7	434.1	426.5	424.8	420.6	414.6	407.9	404.5	398.6	393.5
32.5°	414.6	410.4	402.0	394.3	393.5	390.1	385.0	378.3	374.9	370.6	367.3
35°	379.1	377.4	369.0	363.0	363.0	359.6	354.6	348.6	346.1	341.9	337.6
37.5°	345.3	342.7	335.1	330.0	330.0	325.8	320.7	318.2	315.6	312.3	309.7
40°	309.7	308.0	302.1	297.0	297.9	294.5	291.1	287.7	286.0	284.3	281.8
42.5°	276.7	275.0	270.8	266.6	266.6	264.0	260.6	258.1	256.4	253.9	253.0
45°	247.1	244.6	241.2	236.9	236.9	234.4	232.7	231.0	230.2	228.5	225.9
47.5°	218.3	216.6	213.2	209.0	209.0	209.0	205.6	203.1	203.1	201.4	200.6
50°	193.8	191.2	188.7	185.3	185.3	183.6	181.1	178.6	178.6	177.7	176.0
52.5°	170.9	169.2	165.9	162.5	162.5	160.8	158.2	157.4	156.6	154.0	153.2
55°	151.5	149.8	147.2	143.0	142.2	141.3	138.8	137.1	136.2	133.7	133.7
57.5°	133.7	132.0	127.8	125.2	124.4	122.7	120.2	118.5	117.6	115.9	114.2
60°	118.5	115.9	112.5	109.2	108.3	106.6	104.1	102.4	101.5	98.2	96.5
62.5°	104.1	101.5	98.2	94.8	93.9	92.2	88.9	87.2	85.5	82.1	80.4
65°	90.5	88.0	84.6	81.2	79.5	78.7	75.3	72.8	71.1	68.5	65.2
67.5°	77.9	75.3	71.9	67.7	67.7	65.2	62.6	60.1	57.5	55.0	52.5
70°	66.0	63.5	60.1	56.7	55.9	54.2	51.6	48.2	46.5	43.2	40.6
72.5°	55.0	52.5	49.1	45.7	44.8	43.2	40.6	37.2	34.7	32.2	29.6
75°	44.8	42.3	38.9	36.4	35.5	33.8	31.3	27.9	25.4	23.7	21.2
77.5°	35.5	33.0	30.5	27.9	27.1	25.4	22.8	21.2	18.6	16.9	14.4
80°	27.1	25.4	22.8	21.2	20.3	18.6	16.9	14.4	12.7	11.0	10.2
82.5°	19.5	17.8	16.1	13.5	13.5	11.8	11.0	9.3	7.6	6.8	5.9
85°	11.0	9.3	8.5	7.6	6.8	6.8	5.9	5.1	4.2	3.4	3.4
87.5°	3.4	3.4	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7
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°	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
2.5°	605.0	605.9	604.2	605.9	604.2	605.0	603.4	605.0	603.4	605.0	601.7
5°	599.1	599.1	596.6	598.3	596.6	597.4	594.0	594.9	593.2	594.9	591.5
7.5°	589.0	589.8	585.6	587.3	584.7	584.7	582.2	583.0	580.5	581.4	578.8
10°	577.1	576.3	572.0	573.7	570.4	570.4	567.8	567.8	564.4	565.3	561.9
12.5°	560.2	559.4	554.3	556.0	552.6	552.6	550.0	550.0	546.7	548.4	545.0
15°	540.7	539.9	534.8	535.7	532.3	532.3	528.9	529.7	527.2	528.9	525.5
17.5°	518.7	517.9	512.8	513.7	509.4	510.3	507.7	506.9	505.2	506.0	503.5
20°	495.9	494.2	489.1	490.0	488.3	485.7	484.0	484.9	483.2	484.9	482.3
22.5°	472.2	468.8	464.6	464.6	462.9	462.9	460.3	462.0	458.7	461.2	459.5
25°	445.1	442.6	439.2	440.9	437.5	437.5	435.0	435.8	434.1	435.8	434.1
27.5°	418.9	417.2	412.1	413.8	411.3	412.1	409.6	410.4	409.6	411.3	409.6
30°	391.0	390.1	386.7	386.7	385.9	385.0	384.2	384.2	383.3	385.9	384.2
32.5°	364.7	362.2	358.8	361.3	357.1	359.6	358.0	359.6	358.0	359.6	358.8
35°	337.6	336.8	332.6	333.4	332.6	332.6	331.7	331.7	331.7	334.3	334.3
37.5°	308.9	308.0	305.5	306.3	304.6	303.8	303.8	305.5	305.5	307.2	307.2
40°	280.9	281.8	279.3	279.3	278.4	278.4	278.4	280.1	279.3	280.9	280.1
42.5°	253.0	253.0	250.5	251.3	250.5	251.3	251.3	253.0	253.0	253.9	253.0
45°	226.8	226.8	225.9	226.8	225.1	225.9	225.1	226.8	225.9	226.8	226.8
47.5°	200.6	200.6	200.6	199.7	199.7	199.7	199.7	199.7	198.9	200.6	199.7
50°	176.0	176.9	176.0	176.0	175.2	176.0	175.2	175.2	173.5	174.3	174.3
52.5°	154.0	154.0	152.3	152.3	152.3	151.5	151.5	151.5	150.6	150.6	148.9
55°	132.9	132.9	131.2	131.2	130.3	129.5	128.6	128.6	126.1	126.1	123.5
57.5°	113.4	112.5	110.0	110.0	108.3	107.5	106.6	105.8	104.1	102.4	101.5
60°	95.6	93.9	92.2	91.4	89.7	88.0	86.3	84.6	82.9	82.1	81.2
62.5°	78.7	76.2	74.5	73.6	71.9	69.4	67.7	66.0	64.3	63.5	61.8
65°	63.5	60.9	58.4	57.5	55.9	54.2	51.6	49.9	48.2	47.4	47.4
67.5°	49.9	47.4	44.0	44.0	42.3	40.6	38.9	37.2	36.4	37.2	37.2
70°	37.2	35.5	33.0	32.2	30.5	28.8	27.9	27.9	27.9	28.8	27.9
72.5°	27.9	25.4	23.7	22.8	22.0	21.2	21.2	21.2	20.3	21.2	21.2
75°	19.5	17.8	16.1	16.1	15.2	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	13.5	11.8	11.0	11.0	11.0	10.2	10.2	10.2	10.2	10.2	10.2
80°	8.5	8.5	7.6	7.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	5.1	5.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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°	609.3	609.3	609.3	609.3	609.3	609.3	609.3	609.3
2.5°	601.7	604.2	600.8	603.4	602.5	601.7	600.0	603.4
5°	591.5	592.4	589.0	592.4	591.5	589.8	588.1	591.5
7.5°	577.1	579.7	575.4	578.8	578.0	576.3	574.6	578.0
10°	561.0	563.6	560.2	562.7	562.7	561.0	558.5	561.9
12.5°	543.3	545.0	541.6	545.0	544.1	542.4	541.6	544.1
15°	523.8	526.4	523.0	525.5	524.7	523.8	523.0	525.5
17.5°	502.7	505.2	502.7	505.2	505.2	502.7	501.8	503.5
20°	481.5	483.2	480.7	483.2	482.3	482.3	480.7	483.2
22.5°	457.8	460.3	458.7	460.3	459.5	459.5	458.7	460.3
25°	434.1	436.7	434.1	436.7	435.8	435.8	434.1	438.3
27.5°	410.4	412.1	409.6	413.0	412.1	410.4	411.3	412.1
30°	385.0	386.7	385.0	387.6	387.6	387.6	385.9	387.6
32.5°	359.6	362.2	359.6	362.2	361.3	361.3	360.5	362.2
35°	334.3	335.1	333.4	336.0	336.0	336.8	335.1	337.6
37.5°	308.0	308.9	308.0	308.9	310.6	308.0	309.7	310.6
40°	280.9	282.6	281.8	282.6	282.6	283.5	282.6	283.5
42.5°	253.9	255.6	253.9	256.4	255.6	255.6	256.4	256.4
45°	225.9	228.5	226.8	228.5	229.3	228.5	228.5	230.2
47.5°	199.7	201.4	200.6	201.4	201.4	201.4	201.4	203.1
50°	173.5	174.3	174.3	175.2	175.2	176.0	174.3	175.2
52.5°	147.2	148.9	148.9	148.9	148.1	148.9	148.9	148.9
55°	123.5	124.4	122.7	124.4	124.4	123.5	123.5	125.2
57.5°	100.7	100.7	100.7	100.7	100.7	99.9	100.7	100.7
60°	79.5	80.4	79.5	79.5	79.5	79.5	78.7	80.4
62.5°	61.8	61.8	60.9	61.8	61.8	61.8	62.6	62.6
65°	48.2	49.1	48.2	49.1	49.1	49.1	49.1	49.9
67.5°	38.1	38.1	38.1	38.1	38.1	38.1	38.1	38.1
70°	28.8	28.8	28.8	29.6	28.8	28.8	28.8	29.6
72.5°	21.2	21.2	21.2	21.2	21.2	21.2	22.0	22.0
75°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	10.2	10.2	10.2	11.0	10.2	11.0	10.2	10.2
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8
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)