

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: P252257

Luminaire Tested: **LD6B15D010 EU6B10209730 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252257
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209730 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 1011.0 lumens
Efficiency: N/A
Efficacy: 70.3 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

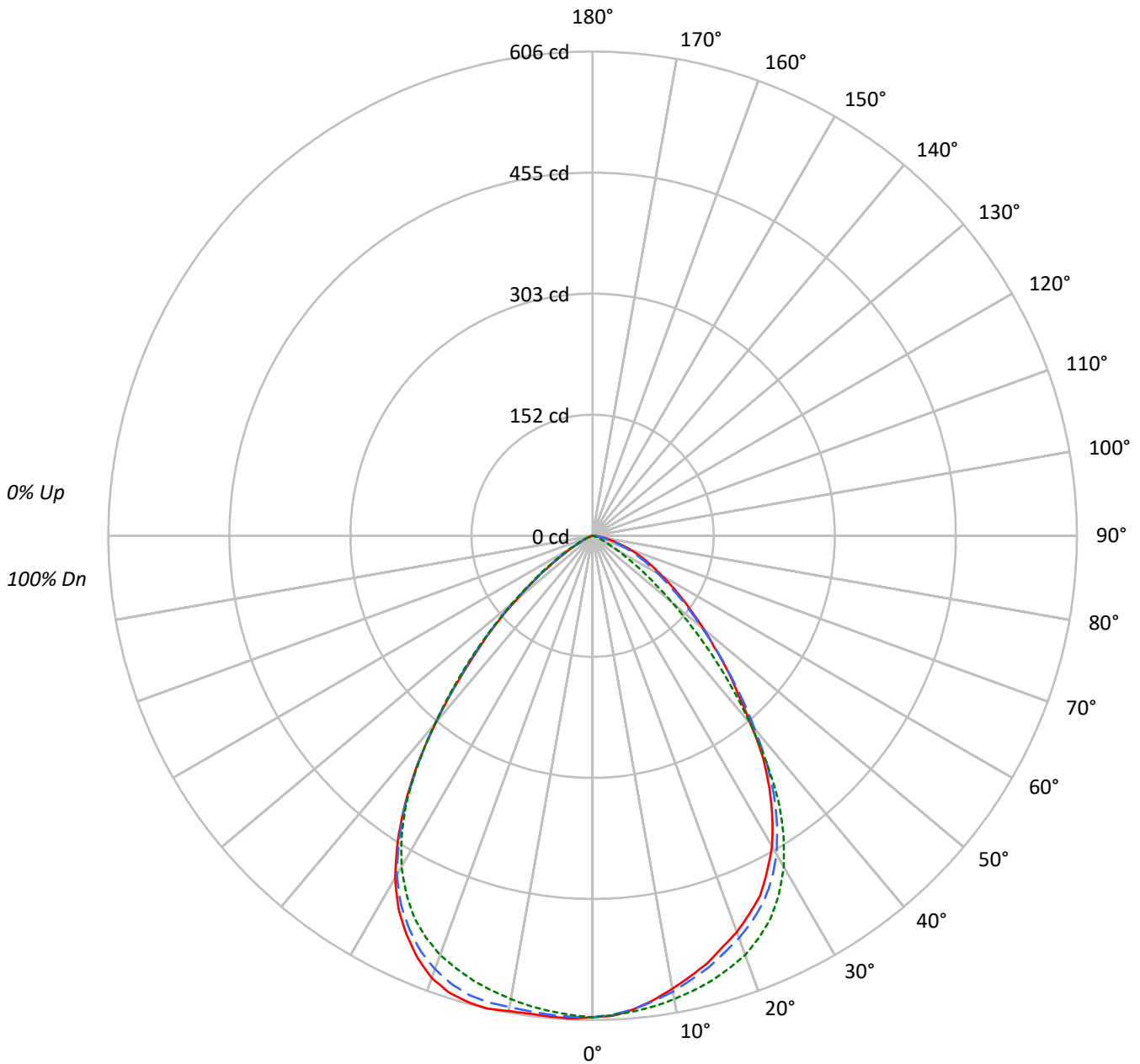
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	112	108	105	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39314	39314	39314
5°	38940	39130	39562
10°	38138	39006	40020
15°	37412	38931	40802
20°	36637	38755	40879
25°	35733	37987	39657
30°	33832	36024	37230
35°	30719	32288	32574
40°	26222	26095	25967
45°	22023	19542	18933
50°	18391	13225	12555
55°	15480	8110	7371
60°	13100	4280	3706
65°	11346	2254	1791
70°	9442	1392	973
75°	6982	907	555
80°	5485	564	263
85°	4342	524	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.8	5.6
10°-20°	162.6	16.1
20°-30°	240.1	23.8
30°-40°	247.5	24.5
40°-50°	170.9	16.9
50°-60°	84.2	8.3
60°-70°	34.1	3.4
70°-80°	12.2	1.2
80°-90°	2.5	0.2
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°	459.5	45.5
0°-40°	707.0	69.9
0°-60°	962.2	95.2
0°-90°	1011.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1011.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	603	603	603	603	603	
5°	595	595	598	602	604	56
15°	554	560	576	595	604	156
25°	496	506	528	543	551	227
35°	386	395	405	408	409	239
45°	239	240	212	209	205	185
55°	136	131	71	67	65	123
65°	74	66	15	12	12	73
75°	28	23	4	2	2	31
85°	6	4	1	0	0	7
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°	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6
2.5°	601.2	599.0	600.4	597.5	601.2	597.5	598.3	599.0	598.3	599.0	599.7
5°	594.6	592.4	594.6	591.0	594.6	592.4	592.4	593.2	593.2	593.9	594.6
7.5°	585.9	583.7	585.9	582.2	586.6	584.4	584.4	585.9	585.2	585.9	587.3
10°	575.7	572.8	575.0	572.8	577.1	574.2	575.7	575.7	575.7	577.9	579.3
12.5°	564.8	561.9	564.8	561.1	565.5	563.3	564.0	566.2	567.0	568.4	569.1
15°	553.9	550.2	551.7	549.5	553.9	551.7	552.4	555.3	555.3	557.5	559.7
17.5°	540.0	537.1	540.0	537.1	540.8	539.3	540.8	542.9	542.9	545.1	547.3
20°	527.7	524.7	526.9	524.7	529.1	526.9	527.7	530.6	531.3	533.5	535.7
22.5°	512.4	510.2	511.6	509.5	513.8	512.4	513.1	516.0	516.7	518.2	521.8
25°	496.4	492.0	494.2	492.7	497.1	494.9	496.4	499.3	500.7	502.9	505.8
27.5°	473.1	470.9	472.3	472.3	476.0	473.8	474.5	477.4	479.6	481.8	485.4
30°	449.1	445.4	446.9	447.6	450.5	449.1	450.5	453.4	454.1	457.1	460.0
32.5°	418.5	417.0	419.9	418.5	419.9	419.9	420.7	422.9	424.3	425.8	429.4
35°	385.7	382.8	385.7	384.3	387.9	385.7	387.9	390.1	390.1	393.0	395.2
37.5°	350.1	346.4	347.9	347.9	349.3	348.6	348.6	352.3	353.0	355.2	357.3
40°	307.9	306.4	309.3	308.6	309.3	309.3	310.0	312.2	313.7	314.4	315.1
42.5°	270.0	270.7	271.5	271.5	271.5	271.5	271.5	274.4	273.7	275.8	276.6
45°	238.7	235.8	237.3	236.5	238.7	236.5	238.7	240.9	239.4	241.6	240.2
47.5°	206.7	206.7	206.7	206.0	207.4	206.7	208.2	208.9	208.9	208.9	208.2
50°	181.2	179.0	179.8	179.8	180.5	179.8	181.2	181.9	181.9	180.5	177.6
52.5°	156.5	155.7	155.7	157.2	157.2	156.5	156.5	156.5	156.5	154.3	152.8
55°	136.1	134.6	135.4	135.4	135.4	135.4	136.1	135.4	135.4	133.2	131.0
57.5°	117.9	116.4	116.4	116.4	117.2	116.4	116.4	116.4	115.7	113.5	110.6
60°	100.4	99.7	100.4	100.4	101.2	100.4	100.4	100.4	99.0	96.8	93.9
62.5°	85.9	85.9	85.9	86.6	86.6	85.9	85.9	85.2	84.4	81.5	78.6
65°	73.5	72.8	73.5	73.5	74.2	74.2	73.5	72.8	72.1	69.1	66.2
67.5°	61.1	60.4	61.1	61.1	61.9	61.1	61.1	61.1	59.0	57.5	54.6
70°	49.5	48.8	48.8	48.8	49.5	48.0	48.8	48.8	47.3	45.1	42.2
72.5°	37.8	37.8	37.8	37.8	37.8	37.8	37.1	37.1	35.7	33.5	32.0
75°	27.7	27.7	28.4	28.4	27.7	27.7	27.7	26.9	26.2	24.7	23.3
77.5°	20.4	20.4	20.4	20.4	19.7	19.7	19.7	18.9	18.2	17.5	16.0
80°	14.6	14.6	14.6	13.8	14.6	13.8	13.8	13.8	12.4	11.6	10.9
82.5°	10.2	9.5	9.5	9.5	9.5	9.5	9.5	8.7	8.7	8.0	7.3
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.1	4.4	4.4
87.5°	2.9	3.6	3.6	3.6	3.6	3.6	3.6	2.9	2.9	2.9	2.2
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°	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6
2.5°	599.7	599.7	601.2	599.0	602.6	600.4	599.7	603.3	601.2	600.4	601.9
5°	594.6	595.3	596.1	594.6	598.3	596.1	596.1	599.7	598.3	597.5	599.7
7.5°	588.1	588.8	590.2	589.5	592.4	591.0	591.7	595.3	593.9	593.9	596.1
10°	580.1	581.5	583.0	583.0	586.6	585.2	585.2	589.5	588.1	588.8	591.7
12.5°	570.6	572.8	575.0	575.7	579.3	577.1	577.9	583.0	582.2	583.0	585.9
15°	560.4	563.3	565.5	565.5	569.9	567.7	569.9	575.0	573.5	576.4	580.1
17.5°	548.8	551.7	554.6	555.3	559.7	558.2	561.1	566.2	566.2	567.7	572.1
20°	537.8	541.5	542.9	545.1	549.5	548.8	550.2	556.0	556.0	558.2	562.6
22.5°	523.3	526.9	529.8	532.0	535.7	535.7	537.8	542.9	542.9	544.4	548.8
25°	507.3	511.6	513.8	516.0	519.6	518.9	521.1	525.5	526.2	527.7	532.0
27.5°	486.9	490.5	493.4	494.9	500.0	497.1	499.3	504.4	503.6	505.1	508.7
30°	461.4	465.1	468.0	468.0	472.3	472.3	474.5	476.7	476.7	478.2	481.1
32.5°	431.6	436.0	436.0	438.1	441.0	438.1	441.0	444.0	442.5	444.7	446.9
35°	397.4	399.6	400.3	400.3	402.5	401.7	401.0	403.2	401.7	405.4	407.6
37.5°	355.9	358.8	357.3	358.8	358.1	355.9	355.9	359.5	356.6	357.3	359.5
40°	315.9	315.9	315.1	311.5	312.2	310.0	309.3	310.0	307.1	306.4	309.3
42.5°	274.4	273.7	271.5	266.4	267.1	263.5	260.6	260.6	259.1	258.4	259.1
45°	237.3	235.1	231.4	225.6	224.2	221.3	215.4	214.0	211.8	211.8	212.5
47.5°	203.1	200.1	194.3	187.8	184.1	180.5	174.7	172.5	168.8	167.4	168.8
50°	174.7	169.6	162.3	152.8	149.2	144.8	139.0	135.4	131.7	130.3	129.5
52.5°	148.5	141.2	133.9	122.3	119.4	115.0	107.0	103.3	99.7	96.8	96.8
55°	125.9	119.4	109.2	98.3	93.9	89.5	81.5	76.4	72.8	71.3	69.9
57.5°	105.5	98.3	88.8	77.1	72.8	68.4	60.4	55.3	51.7	49.5	48.0
60°	88.8	80.8	71.3	61.1	56.0	51.7	43.7	38.6	34.9	32.8	31.3
62.5°	72.8	66.2	56.8	47.3	42.9	38.6	32.0	26.9	23.3	21.8	19.7
65°	61.1	54.6	45.9	37.8	34.2	29.8	24.0	19.7	16.7	14.6	13.1
67.5°	49.5	44.4	37.1	29.8	26.2	23.3	18.2	14.6	11.6	10.2	9.5
70°	39.3	34.2	28.4	22.6	20.4	17.5	13.8	10.2	8.7	7.3	6.6
72.5°	29.1	25.5	21.1	16.7	14.6	13.1	9.5	8.0	5.8	5.1	4.4
75°	21.1	18.2	15.3	11.6	10.2	9.5	7.3	5.1	4.4	3.6	2.9
77.5°	14.6	13.1	10.2	8.0	7.3	6.6	5.1	3.6	2.9	2.2	2.2
80°	9.5	8.0	6.6	5.1	5.1	4.4	2.9	2.2	2.2	1.5	1.5
82.5°	5.8	5.1	4.4	3.6	2.9	2.9	2.2	1.5	1.5	0.7	0.7
85°	3.6	2.9	2.2	2.2	1.5	1.5	1.5	0.7	0.7	0.7	0.7
87.5°	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6
2.5°	601.9	601.9	603.3	601.2	602.6	602.6	604.1	601.2	602.6	603.3	604.8
5°	599.0	599.7	601.2	600.4	601.2	601.2	602.6	599.0	601.9	601.9	604.1
7.5°	596.1	596.1	597.5	596.8	598.3	599.0	600.4	597.5	600.4	600.4	602.6
10°	592.4	592.4	594.6	593.9	596.1	596.8	599.0	596.1	599.0	599.7	601.9
12.5°	587.3	588.1	590.2	590.2	592.4	593.9	596.1	594.6	598.3	599.0	601.9
15°	581.5	583.0	585.9	585.2	587.3	589.5	592.4	590.2	595.3	596.8	599.7
17.5°	574.2	575.7	577.9	577.9	580.1	581.5	585.2	583.7	588.1	588.8	592.4
20°	563.3	565.5	568.4	567.7	569.9	571.3	574.2	572.8	577.1	578.6	582.2
22.5°	550.2	551.7	553.9	553.9	556.0	557.5	560.4	558.2	562.6	563.3	566.2
25°	532.7	534.2	535.7	536.4	538.6	539.3	540.8	539.3	542.9	543.7	547.3
27.5°	510.2	510.9	513.1	513.1	514.6	515.3	517.5	514.6	519.6	519.6	521.8
30°	483.3	482.5	485.4	484.0	485.4	485.4	487.6	486.2	489.8	488.4	490.5
32.5°	447.6	449.1	449.1	447.6	450.5	449.8	449.8	448.3	450.5	451.2	452.7
35°	406.1	408.3	408.3	409.0	409.8	407.6	408.3	403.9	407.6	408.3	409.0
37.5°	361.0	358.8	360.3	358.1	361.7	357.3	357.3	354.4	357.3	357.3	358.1
40°	309.3	308.6	310.0	308.6	307.9	307.1	305.7	303.5	306.4	304.9	307.1
42.5°	260.6	259.8	259.8	258.4	257.6	257.6	256.2	254.7	254.0	254.0	257.6
45°	210.3	211.8	210.3	209.6	211.1	209.6	210.3	207.4	208.9	207.4	208.9
47.5°	168.1	168.8	167.4	165.9	168.1	165.9	165.9	163.8	166.7	166.7	165.2
50°	130.3	129.5	128.1	129.5	128.8	128.8	128.8	126.6	128.1	125.9	127.4
52.5°	96.1	95.3	95.3	94.6	95.3	94.6	94.6	93.9	93.9	93.2	93.9
55°	69.9	69.1	67.7	67.7	67.7	68.4	67.7	67.0	67.0	66.2	67.0
57.5°	47.3	45.9	45.9	45.9	45.9	45.1	45.1	44.4	45.1	44.4	45.1
60°	30.6	30.6	29.1	29.1	29.1	29.1	29.1	28.4	29.1	29.1	29.1
62.5°	18.9	18.9	18.2	17.5	18.2	17.5	17.5	17.5	18.2	17.5	18.2
65°	12.4	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
67.5°	8.7	8.0	8.0	8.0	8.0	8.0	8.0	7.3	8.0	8.0	8.0
70°	5.8	5.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	2.2	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	602.6	602.6	602.6	602.6	602.6	602.6	602.6	602.6
2.5°	602.6	603.3	601.9	602.6	601.2	602.6	603.3	604.8
5°	601.2	601.9	600.4	601.9	600.4	601.9	602.6	604.1
7.5°	599.7	601.2	599.7	601.2	599.7	601.2	601.9	603.3
10°	599.7	601.9	600.4	602.6	600.4	601.9	603.3	604.1
12.5°	599.7	601.9	601.2	602.6	601.9	603.3	604.8	606.3
15°	598.3	600.4	599.0	601.2	600.4	601.2	604.1	604.1
17.5°	590.2	592.4	592.4	593.9	593.9	596.1	597.5	599.0
20°	580.1	582.2	581.5	583.7	583.7	585.9	587.3	588.8
22.5°	564.8	567.7	567.0	569.1	568.4	569.9	572.8	572.1
25°	545.1	548.8	548.0	549.5	548.8	548.8	550.2	550.9
27.5°	521.1	523.3	522.6	524.0	522.6	524.0	525.5	526.2
30°	489.8	491.3	490.5	491.3	490.5	492.0	492.7	494.2
32.5°	452.0	454.1	452.0	453.4	452.7	452.7	455.6	454.1
35°	406.8	407.6	408.3	408.3	406.8	407.6	409.0	409.0
37.5°	356.6	360.3	355.9	358.1	357.3	357.3	357.3	359.5
40°	304.2	304.9	303.5	303.5	303.5	302.8	305.7	304.9
42.5°	254.7	255.5	254.7	252.5	253.3	253.3	255.5	252.5
45°	206.7	208.2	207.4	207.4	206.0	206.0	206.7	205.2
47.5°	163.8	165.2	163.0	163.8	162.3	163.8	163.0	164.5
50°	124.5	125.9	125.2	125.9	125.9	124.5	126.6	123.7
52.5°	93.2	93.9	93.2	92.4	91.7	91.7	93.2	92.4
55°	66.2	65.5	65.5	65.5	66.2	66.2	65.5	64.8
57.5°	44.4	44.4	43.7	43.7	44.4	42.9	43.7	42.9
60°	28.4	28.4	28.4	28.4	27.7	28.4	28.4	28.4
62.5°	17.5	17.5	17.5	17.5	17.5	17.5	17.5	17.5
65°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
67.5°	7.3	8.0	8.0	8.0	7.3	7.3	7.3	7.3
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	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)