

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: P252336

Luminaire Tested: **LD6B10D010 EU6B10208027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252336
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 EU6B10208027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 920.0 lumens
Efficiency: N/A
Efficacy: 91.5 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

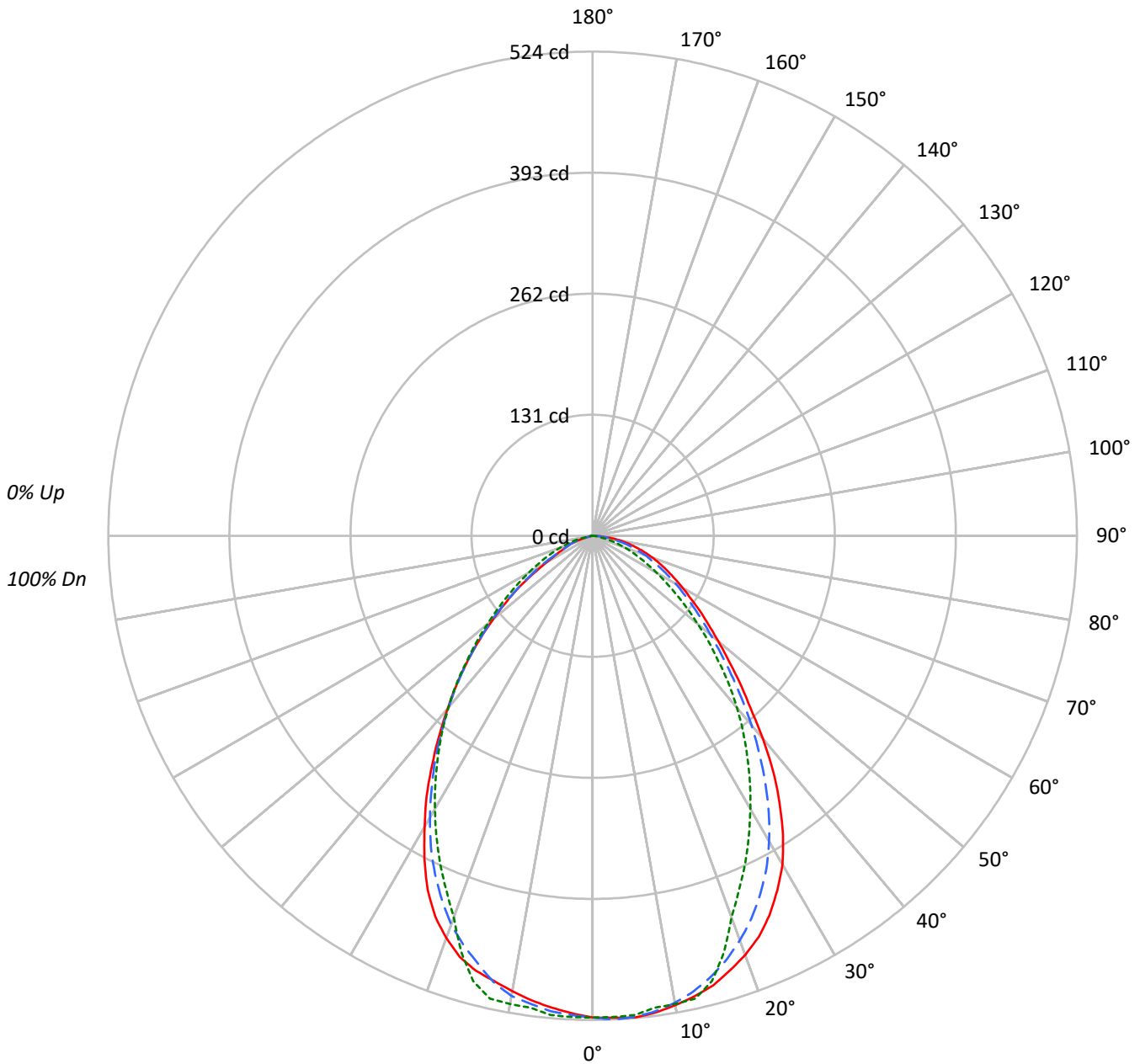
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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								
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°	34010	34010	34010
5°	34271	34094	33564
10°	34177	34084	33143
15°	34021	33697	32920
20°	33513	30506	32152
25°	32602	28117	30406
30°	30954	25704	27384
35°	28090	23240	24100
40°	24391	20695	20755
45°	20796	17798	17613
50°	18005	15052	14220
55°	16095	12546	11010
60°	14666	10425	7424
65°	13693	8568	5542
70°	13047	6981	4654
75°	12276	4941	1538
80°	11684	2555	526
85°	9656	1497	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.2	5.4
10°-20°	137.7	15.0
20°-30°	190.0	20.7
30°-40°	193.4	21.0
40°-50°	155.4	16.9
50°-60°	103.3	11.2
60°-70°	58.9	6.4
70°-80°	26.4	2.9
80°-90°	5.6	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°	376.9	41.0
0°-40°	570.3	62.0
0°-60°	829.1	90.1
0°-90°	920.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	920.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	521	521	521	521	521	
5°	523	523	521	516	512	50
15°	504	494	499	479	487	142
25°	453	428	391	404	422	208
35°	353	326	292	297	303	219
45°	225	212	193	191	191	175
55°	142	132	110	98	97	127
65°	89	79	56	36	36	88
75°	49	41	20	8	6	52
85°	13	9	2	1	0	15
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°	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3
2.5°	522.0	524.7	524.0	523.3	524.0	523.3	522.0	522.0	520.6	520.6	524.0
5°	523.3	524.7	524.0	523.3	523.3	524.0	521.3	521.3	519.9	519.2	522.6
7.5°	520.6	522.6	521.3	521.3	520.6	521.3	518.6	518.6	516.5	515.9	519.2
10°	515.9	518.6	517.2	517.2	517.2	515.9	514.5	513.8	511.8	511.1	513.2
12.5°	510.4	512.5	511.8	510.4	510.4	510.4	507.7	507.1	504.4	503.0	505.0
15°	503.7	505.0	504.4	503.7	502.3	502.3	499.6	498.3	495.6	492.8	494.2
17.5°	493.5	495.6	494.2	493.5	491.5	491.5	488.8	487.4	483.4	480.7	481.3
20°	482.7	483.4	482.7	481.3	479.3	478.6	475.9	473.2	469.8	466.4	465.8
22.5°	469.8	470.5	468.5	467.1	465.1	464.4	461.0	459.0	453.6	449.5	448.8
25°	452.9	453.6	453.6	450.2	448.8	447.5	444.1	440.7	436.0	430.6	428.5
27.5°	432.6	434.6	433.3	429.9	427.2	426.5	423.1	420.4	414.3	409.6	406.9
30°	410.9	410.3	409.6	407.5	403.5	402.8	399.4	396.0	391.3	385.2	381.8
32.5°	383.2	383.2	382.5	380.5	376.4	375.1	372.3	368.3	362.9	358.1	354.7
35°	352.7	353.4	352.7	348.6	345.9	344.6	343.2	338.5	333.8	328.3	325.6
37.5°	320.9	318.9	319.5	316.2	312.8	314.1	310.1	308.0	302.6	298.6	295.8
40°	286.4	287.7	285.0	283.7	281.6	279.6	279.6	276.2	273.5	268.8	267.4
42.5°	252.5	254.5	253.9	252.5	249.8	250.5	247.1	245.7	242.4	240.3	238.3
45°	225.4	225.4	225.4	224.1	223.4	222.1	220.0	218.0	216.0	213.3	211.9
47.5°	199.0	199.0	199.7	198.4	197.0	196.3	195.0	195.0	191.6	188.9	187.5
50°	177.4	177.4	177.4	176.0	174.7	174.7	173.3	172.0	169.9	167.9	166.5
52.5°	157.7	157.7	157.7	156.4	155.7	155.0	154.4	153.7	151.0	149.6	148.3
55°	141.5	140.8	140.8	140.1	138.8	138.8	138.1	136.8	134.7	132.7	132.0
57.5°	125.2	125.9	125.2	125.2	123.9	123.9	122.5	121.9	119.8	118.5	117.1
60°	112.4	112.4	112.4	111.7	110.3	111.0	109.7	109.0	107.0	104.9	103.6
62.5°	99.5	100.2	100.2	99.5	98.2	98.2	97.5	96.8	94.8	92.7	90.7
65°	88.7	88.7	88.7	88.0	87.3	87.3	86.7	86.0	83.9	81.2	79.2
67.5°	78.5	77.9	77.9	77.9	77.2	76.5	75.8	75.1	73.1	71.1	68.4
70°	68.4	68.4	68.4	67.7	66.3	67.0	66.3	65.7	63.6	61.6	59.6
72.5°	58.9	58.9	58.2	57.5	57.5	56.9	56.9	56.2	54.2	51.5	49.4
75°	48.7	48.7	48.7	48.7	47.4	48.1	46.7	46.0	44.7	42.7	40.6
77.5°	39.9	39.9	39.9	39.3	38.6	38.6	37.9	37.2	35.2	33.8	31.1
80°	31.1	31.1	31.1	31.1	30.5	29.8	29.1	28.4	27.1	25.0	23.0
82.5°	23.0	23.0	22.3	22.3	22.3	21.7	21.0	20.3	19.0	17.6	16.2
85°	12.9	13.5	13.5	12.2	12.9	12.2	12.2	10.8	10.8	9.5	8.8
87.5°	4.7	4.1	4.1	4.1	4.1	4.1	4.1	3.4	3.4	3.4	2.7
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3
2.5°	521.3	520.6	523.3	523.3	519.2	521.3	522.0	520.6	520.6	521.3	519.2
5°	519.9	518.6	521.3	522.0	517.9	519.9	520.6	519.2	519.9	520.6	517.9
7.5°	515.2	515.2	517.2	517.9	513.8	515.9	515.9	514.5	515.2	515.2	513.2
10°	510.4	508.4	510.4	510.4	507.1	507.7	509.1	508.4	511.1	514.5	514.5
12.5°	501.6	499.6	503.0	503.0	501.0	503.7	507.1	509.1	511.8	513.2	509.1
15°	490.8	491.5	497.6	502.3	500.3	504.4	507.7	506.4	503.0	498.9	492.8
17.5°	476.6	474.6	480.0	482.7	480.0	481.3	484.0	481.3	475.9	472.5	464.4
20°	460.4	454.9	454.9	453.6	448.8	448.8	448.2	443.4	441.4	439.4	436.0
22.5°	442.1	436.0	433.9	429.9	425.8	425.1	423.1	418.4	415.7	414.3	410.3
25°	421.1	415.7	412.3	408.2	402.1	400.8	398.7	394.0	392.7	390.6	387.2
27.5°	399.4	392.7	387.9	383.9	378.4	377.8	373.7	370.3	367.6	366.2	363.5
30°	374.4	366.9	363.5	358.1	354.1	352.7	349.3	344.6	342.6	341.2	339.2
32.5°	346.6	340.5	337.1	332.4	327.0	327.7	323.6	319.5	318.2	316.8	314.8
35°	319.5	313.4	309.4	305.3	301.9	300.6	297.9	294.5	292.5	291.8	290.4
37.5°	289.8	285.0	281.6	277.6	274.9	273.5	272.1	268.8	267.4	267.4	264.7
40°	260.6	256.6	253.9	251.8	248.5	247.8	246.4	244.4	243.7	243.0	241.0
42.5°	234.2	228.8	226.8	225.4	223.4	222.1	221.4	220.0	219.3	218.7	216.6
45°	209.2	204.4	202.4	201.1	199.0	198.4	197.7	195.6	194.3	192.9	192.3
47.5°	184.8	181.4	180.8	177.4	176.0	174.7	173.3	172.0	171.3	170.6	167.9
50°	163.8	161.8	158.4	156.4	155.0	154.4	151.6	149.6	148.9	148.3	146.2
52.5°	144.9	142.2	140.1	136.8	136.1	134.7	133.4	130.7	129.3	128.6	126.6
55°	128.0	125.9	123.2	120.5	118.5	117.8	115.8	113.1	111.7	110.3	109.0
57.5°	113.7	110.3	107.6	104.9	103.6	101.5	99.5	98.2	96.1	94.1	92.1
60°	100.2	97.5	94.1	91.4	90.0	88.7	86.0	83.9	81.9	79.9	77.9
62.5°	87.3	84.6	81.2	78.5	77.2	75.8	73.1	71.1	69.1	67.0	64.3
65°	75.8	73.1	70.4	67.7	66.3	65.0	62.3	59.6	57.5	55.5	52.8
67.5°	66.3	63.0	60.3	57.5	56.2	54.8	52.1	50.1	47.4	45.4	42.7
70°	56.2	53.5	51.5	48.7	47.4	46.0	43.3	40.6	38.6	36.6	33.8
72.5°	47.4	44.0	42.0	39.3	37.9	37.2	34.5	32.5	30.5	27.8	25.7
75°	37.9	35.2	32.5	30.5	29.1	28.4	25.7	23.7	21.7	19.6	17.6
77.5°	29.1	27.1	24.4	22.3	21.0	20.3	17.6	15.6	13.5	12.2	10.2
80°	21.7	19.0	17.6	15.6	14.9	13.5	12.2	10.2	8.8	6.8	5.4
82.5°	14.9	12.9	11.5	10.2	9.5	8.8	7.4	6.1	4.7	4.1	3.4
85°	8.1	6.8	6.1	5.4	4.7	4.7	4.1	3.4	2.7	2.0	1.4
87.5°	2.7	2.0	2.0	2.0	2.0	1.4	1.4	1.4	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3
2.5°	520.6	520.6	520.6	519.9	519.9	519.9	519.2	522.0	519.2	518.6	520.6
5°	519.9	518.6	518.6	518.6	518.6	517.9	517.2	518.6	516.5	515.9	515.9
7.5°	515.9	515.2	515.2	514.5	513.8	513.2	512.5	513.2	511.1	510.4	510.4
10°	516.5	515.2	515.2	513.2	511.8	509.8	507.7	508.4	505.7	503.7	503.7
12.5°	508.4	505.0	503.0	501.0	499.6	498.9	496.2	497.6	494.9	494.2	494.2
15°	490.1	486.1	482.7	481.3	481.3	480.0	478.0	480.7	479.3	480.0	483.4
17.5°	461.7	459.7	457.6	457.0	457.6	459.0	460.4	464.4	464.4	466.4	469.8
20°	436.7	435.3	436.7	436.7	437.3	440.0	442.7	446.1	447.5	449.5	454.3
22.5°	412.3	412.3	413.6	415.7	415.0	419.7	420.4	426.5	426.5	430.6	434.6
25°	388.6	388.6	389.9	390.6	392.0	394.7	397.4	402.1	403.5	407.5	410.9
27.5°	365.6	364.9	364.9	365.6	366.9	370.3	371.7	377.1	379.1	381.8	385.2
30°	339.8	339.2	340.5	341.9	341.2	344.6	346.6	350.7	352.0	354.7	357.4
32.5°	315.5	315.5	315.5	316.8	316.8	319.5	319.5	324.3	324.3	326.3	329.0
35°	290.4	290.4	291.1	291.8	292.5	293.1	293.8	296.5	297.2	297.9	299.2
37.5°	266.7	266.1	266.7	266.7	265.4	268.1	268.1	270.8	268.8	270.8	271.5
40°	242.4	242.4	241.7	241.7	241.7	243.0	241.7	243.7	242.4	243.7	243.0
42.5°	217.3	217.3	216.0	217.3	216.6	216.6	216.6	218.0	216.0	217.3	218.0
45°	192.3	191.6	191.6	190.9	190.9	190.9	191.6	191.6	190.9	192.3	192.3
47.5°	167.9	167.2	167.2	167.2	167.2	167.9	165.9	167.2	165.9	165.9	165.9
50°	146.9	146.2	145.6	144.9	144.2	144.2	143.5	143.5	142.2	141.5	140.8
52.5°	126.6	125.9	124.6	124.6	123.9	123.2	121.2	121.2	119.1	118.5	118.5
55°	108.3	106.3	105.6	104.3	104.3	102.9	101.5	100.2	98.2	96.8	96.8
57.5°	91.4	89.4	88.0	87.3	86.7	85.3	82.6	81.9	79.2	78.5	77.9
60°	76.5	74.5	72.4	71.1	70.4	68.4	65.7	64.3	63.0	60.9	58.9
62.5°	62.3	60.3	57.5	56.9	55.5	53.5	51.5	49.4	48.1	46.0	44.7
65°	50.1	48.1	46.0	44.7	43.3	41.3	39.3	37.2	35.9	35.2	34.5
67.5°	40.6	37.9	35.9	35.2	33.8	32.5	30.5	29.8	28.4	28.4	28.4
70°	31.8	29.8	27.8	27.1	26.4	25.0	23.7	23.7	23.7	23.7	23.7
72.5°	23.7	22.3	20.3	19.6	19.0	18.3	16.9	17.6	16.9	16.9	16.9
75°	14.9	13.5	12.2	11.5	10.8	10.2	9.5	8.8	8.1	7.4	7.4
77.5°	8.1	6.8	6.1	5.4	5.4	4.7	4.1	4.1	3.4	3.4	3.4
80°	4.7	4.1	3.4	2.7	2.7	2.0	2.0	2.0	2.0	1.4	1.4
82.5°	2.7	2.0	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.7
85°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
87.5°	0.7	0.7	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°	521.3	521.3	521.3	521.3	521.3	521.3	521.3	521.3
2.5°	517.2	519.2	517.2	519.2	519.2	519.2	519.2	517.2
5°	513.8	515.2	513.2	514.5	515.2	514.5	514.5	512.5
7.5°	507.7	509.1	507.1	509.1	509.8	509.1	508.4	507.1
10°	501.6	502.3	500.3	501.6	503.0	503.0	502.3	500.3
12.5°	492.2	494.2	492.2	493.5	494.9	495.6	495.6	493.5
15°	481.3	484.7	483.4	485.4	487.4	488.1	488.1	487.4
17.5°	470.5	473.9	471.9	475.2	477.3	478.6	479.3	478.0
20°	454.9	459.0	457.6	460.4	463.1	465.1	465.1	463.1
22.5°	434.6	440.0	439.4	441.4	444.8	445.5	446.8	445.5
25°	412.3	416.3	415.7	417.7	421.8	421.8	422.4	422.4
27.5°	386.6	390.6	389.9	391.3	394.0	394.7	395.4	394.0
30°	358.8	360.8	360.8	362.9	364.9	365.6	365.6	363.5
32.5°	328.3	331.0	332.4	331.7	333.8	335.1	334.4	334.4
35°	300.6	301.3	301.9	302.6	303.3	304.6	303.3	302.6
37.5°	270.8	272.8	271.5	272.8	274.2	273.5	272.8	272.8
40°	243.7	244.4	243.0	244.4	245.1	245.1	245.1	243.7
42.5°	216.6	218.0	216.6	218.0	218.0	218.0	218.0	217.3
45°	189.6	190.9	190.9	191.6	191.6	190.9	190.9	190.9
47.5°	164.5	165.9	164.5	165.9	166.5	165.2	165.2	165.2
50°	140.8	140.1	140.1	140.8	140.8	140.8	140.8	140.1
52.5°	116.4	117.1	117.1	117.1	117.8	117.1	117.8	117.8
55°	95.5	95.5	95.5	96.1	95.5	95.5	96.1	96.8
57.5°	76.5	75.8	75.1	75.1	75.8	75.1	75.1	75.1
60°	58.9	58.2	57.5	57.5	57.5	57.5	57.5	56.9
62.5°	44.0	44.0	44.0	44.7	44.7	44.7	44.7	45.4
65°	35.2	35.2	35.2	35.2	35.2	35.2	35.2	35.9
67.5°	28.4	28.4	28.4	29.1	29.1	29.1	29.1	29.1
70°	23.7	23.7	24.4	23.7	24.4	24.4	24.4	24.4
72.5°	16.2	16.2	16.2	16.2	16.2	15.6	16.2	15.6
75°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.1
77.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
80°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
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)