

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: P252343

Luminaire Tested: **LD6B10D010 EU6B10209030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252343
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 EU6B10209030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 821.0 lumens
Efficiency: N/A
Efficacy: 81.7 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

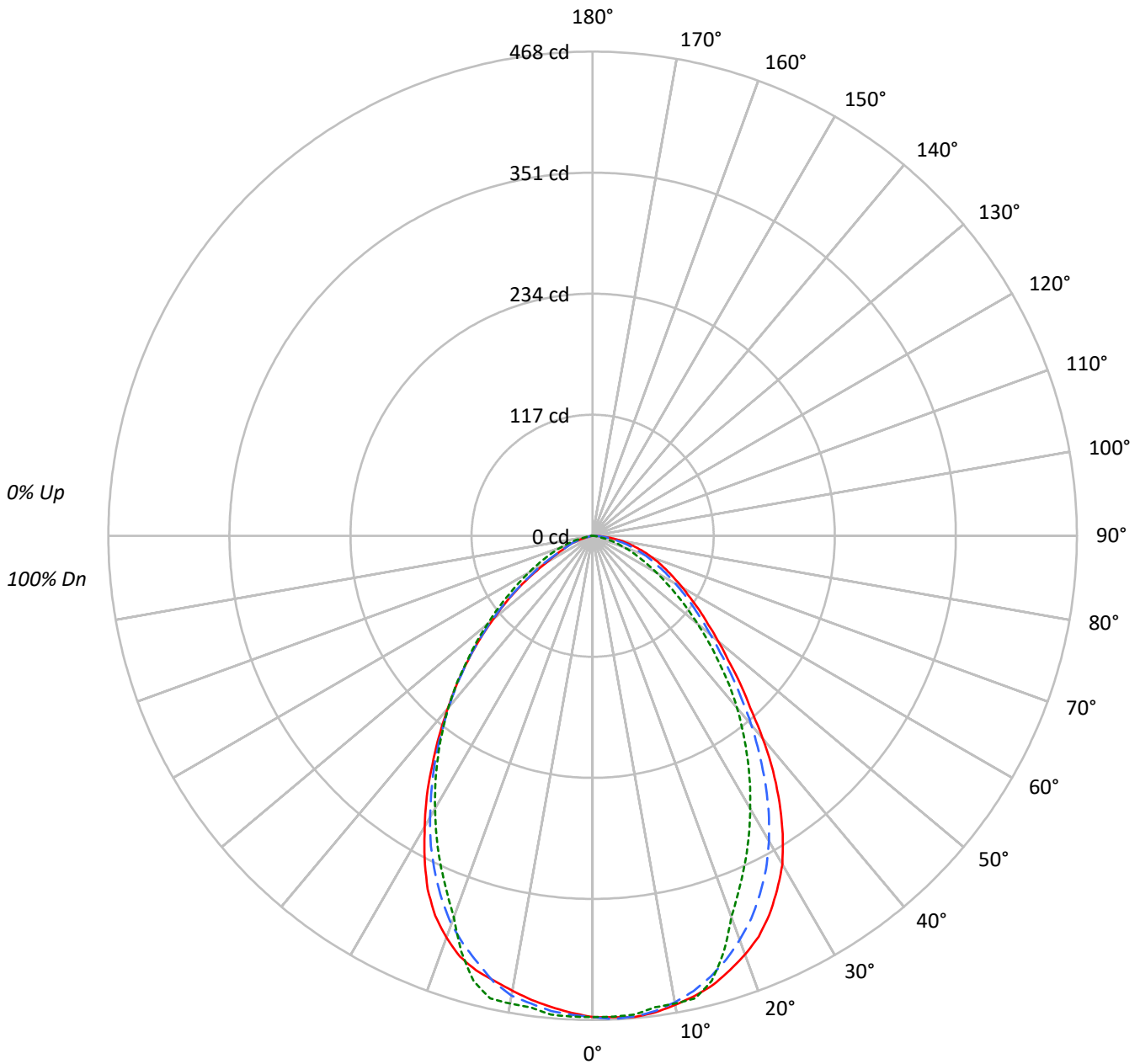
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	30350	30350	30350
5°	30584	30427	29949
10°	30500	30414	29579
15°	30360	30070	29381
20°	29902	27223	28687
25°	29096	25094	27138
30°	27625	22939	24438
35°	25072	20739	21504
40°	21760	18472	18524
45°	18564	15888	15722
50°	16067	13428	12697
55°	14366	11204	9827
60°	13087	9303	6615
65°	12211	7641	4940
70°	11636	6218	4139
75°	10965	4411	1361
80°	10445	2254	451
85°	8608	1347	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.9	5.4
10°-20°	122.9	15.0
20°-30°	169.6	20.7
30°-40°	172.6	21.0
40°-50°	138.7	16.9
50°-60°	92.2	11.2
60°-70°	52.6	6.4
70°-80°	23.6	2.9
80°-90°	5.0	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°	336.4	41.0
0°-40°	509.0	62.0
0°-60°	739.9	90.1
0°-90°	821.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	821.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	465	465	465	465	465	
5°	467	466	465	461	457	44
15°	450	441	445	428	435	126
25°	404	382	349	360	377	185
35°	315	291	260	265	270	196
45°	201	189	172	170	170	156
55°	126	118	98	88	86	113
65°	79	71	50	32	32	79
75°	44	36	18	7	5	46
85°	12	8	2	1	0	14
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°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	465.8	468.2	467.6	467.0	467.6	467.0	465.8	465.8	464.6	464.6	467.6
5°	467.0	468.2	467.6	467.0	467.0	467.6	465.2	465.2	464.0	463.4	466.4
7.5°	464.6	466.4	465.2	465.2	464.6	465.2	462.8	462.8	461.0	460.4	463.4
10°	460.4	462.8	461.6	461.6	461.6	460.4	459.1	458.5	456.7	456.1	457.9
12.5°	455.5	457.3	456.7	455.5	455.5	455.5	453.1	452.5	450.1	448.9	450.7
15°	449.5	450.7	450.1	449.5	448.3	448.3	445.9	444.6	442.2	439.8	441.0
17.5°	440.4	442.2	441.0	440.4	438.6	438.6	436.2	435.0	431.4	428.9	429.5
20°	430.7	431.4	430.7	429.5	427.7	427.1	424.7	422.3	419.3	416.3	415.6
22.5°	419.3	419.9	418.1	416.9	415.0	414.4	411.4	409.6	404.8	401.1	400.5
25°	404.2	404.8	404.8	401.8	400.5	399.3	396.3	393.3	389.1	384.2	382.4
27.5°	386.0	387.9	386.6	383.6	381.2	380.6	377.6	375.2	369.7	365.5	363.1
30°	366.7	366.1	365.5	363.7	360.1	359.5	356.4	353.4	349.2	343.8	340.7
32.5°	341.9	341.9	341.3	339.5	335.9	334.7	332.3	328.7	323.8	319.6	316.6
35°	314.8	315.4	314.8	311.1	308.7	307.5	306.3	302.1	297.8	293.0	290.6
37.5°	286.4	284.5	285.2	282.1	279.1	280.3	276.7	274.9	270.0	266.4	264.0
40°	255.5	256.8	254.3	253.1	251.3	249.5	249.5	246.5	244.1	239.8	238.6
42.5°	225.3	227.2	226.6	225.3	222.9	223.5	220.5	219.3	216.3	214.5	212.7
45°	201.2	201.2	201.2	200.0	199.4	198.2	196.3	194.5	192.7	190.3	189.1
47.5°	177.6	177.6	178.2	177.0	175.8	175.2	174.0	174.0	171.0	168.6	167.3
50°	158.3	158.3	158.3	157.1	155.9	155.9	154.7	153.5	151.6	149.8	148.6
52.5°	140.8	140.8	140.8	139.6	139.0	138.3	137.7	137.1	134.7	133.5	132.3
55°	126.3	125.7	125.7	125.1	123.8	123.8	123.2	122.0	120.2	118.4	117.8
57.5°	111.8	112.4	111.8	111.8	110.6	110.6	109.3	108.7	106.9	105.7	104.5
60°	100.3	100.3	100.3	99.7	98.5	99.1	97.9	97.3	95.5	93.6	92.4
62.5°	88.8	89.4	89.4	88.8	87.6	87.6	87.0	86.4	84.6	82.8	81.0
65°	79.1	79.1	79.1	78.5	77.9	77.9	77.3	76.7	74.9	72.5	70.7
67.5°	70.1	69.5	69.5	69.5	68.9	68.3	67.7	67.1	65.2	63.4	61.0
70°	61.0	61.0	61.0	60.4	59.2	59.8	59.2	58.6	56.8	55.0	53.2
72.5°	52.6	52.6	52.0	51.4	51.4	50.7	50.7	50.1	48.3	45.9	44.1
75°	43.5	43.5	43.5	43.5	42.3	42.9	41.7	41.1	39.9	38.1	36.2
77.5°	35.6	35.6	35.6	35.0	34.4	34.4	33.8	33.2	31.4	30.2	27.8
80°	27.8	27.8	27.8	27.8	27.2	26.6	26.0	25.4	24.2	22.4	20.5
82.5°	20.5	20.5	19.9	19.9	19.9	19.3	18.7	18.1	16.9	15.7	14.5
85°	11.5	12.1	12.1	10.9	11.5	10.9	10.9	9.7	9.7	8.5	7.9
87.5°	4.2	3.6	3.6	3.6	3.6	3.6	3.6	3.0	3.0	3.0	2.4
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	465.2	464.6	467.0	467.0	463.4	465.2	465.8	464.6	464.6	465.2	463.4
5°	464.0	462.8	465.2	465.8	462.2	464.0	464.6	463.4	464.0	464.6	462.2
7.5°	459.7	459.7	461.6	462.2	458.5	460.4	460.4	459.1	459.7	459.7	457.9
10°	455.5	453.7	455.5	455.5	452.5	453.1	454.3	453.7	456.1	459.1	459.1
12.5°	447.7	445.9	448.9	448.9	447.1	449.5	452.5	454.3	456.7	457.9	454.3
15°	438.0	438.6	444.0	448.3	446.5	450.1	453.1	451.9	448.9	445.2	439.8
17.5°	425.3	423.5	428.3	430.7	428.3	429.5	432.0	429.5	424.7	421.7	414.4
20°	410.8	406.0	406.0	404.8	400.5	400.5	399.9	395.7	393.9	392.1	389.1
22.5°	394.5	389.1	387.3	383.6	380.0	379.4	377.6	373.4	370.9	369.7	366.1
25°	375.8	370.9	367.9	364.3	358.9	357.6	355.8	351.6	350.4	348.6	345.6
27.5°	356.4	350.4	346.2	342.5	337.7	337.1	333.5	330.5	328.0	326.8	324.4
30°	334.1	327.4	324.4	319.6	316.0	314.8	311.7	307.5	305.7	304.5	302.7
32.5°	309.3	303.9	300.9	296.6	291.8	292.4	288.8	285.2	283.9	282.7	280.9
35°	285.2	279.7	276.1	272.5	269.4	268.2	265.8	262.8	261.0	260.4	259.2
37.5°	258.6	254.3	251.3	247.7	245.3	244.1	242.9	239.8	238.6	238.6	236.2
40°	232.6	229.0	226.6	224.7	221.7	221.1	219.9	218.1	217.5	216.9	215.1
42.5°	209.0	204.2	202.4	201.2	199.4	198.2	197.6	196.3	195.7	195.1	193.3
45°	186.7	182.4	180.6	179.4	177.6	177.0	176.4	174.6	173.4	172.2	171.6
47.5°	164.9	161.9	161.3	158.3	157.1	155.9	154.7	153.5	152.8	152.2	149.8
50°	146.2	144.4	141.4	139.6	138.3	137.7	135.3	133.5	132.9	132.3	130.5
52.5°	129.3	126.9	125.1	122.0	121.4	120.2	119.0	116.6	115.4	114.8	113.0
55°	114.2	112.4	110.0	107.5	105.7	105.1	103.3	100.9	99.7	98.5	97.3
57.5°	101.5	98.5	96.1	93.6	92.4	90.6	88.8	87.6	85.8	84.0	82.2
60°	89.4	87.0	84.0	81.6	80.4	79.1	76.7	74.9	73.1	71.3	69.5
62.5°	77.9	75.5	72.5	70.1	68.9	67.7	65.2	63.4	61.6	59.8	57.4
65°	67.7	65.2	62.8	60.4	59.2	58.0	55.6	53.2	51.4	49.5	47.1
67.5°	59.2	56.2	53.8	51.4	50.1	48.9	46.5	44.7	42.3	40.5	38.1
70°	50.1	47.7	45.9	43.5	42.3	41.1	38.7	36.2	34.4	32.6	30.2
72.5°	42.3	39.3	37.5	35.0	33.8	33.2	30.8	29.0	27.2	24.8	23.0
75°	33.8	31.4	29.0	27.2	26.0	25.4	23.0	21.1	19.3	17.5	15.7
77.5°	26.0	24.2	21.7	19.9	18.7	18.1	15.7	13.9	12.1	10.9	9.1
80°	19.3	16.9	15.7	13.9	13.3	12.1	10.9	9.1	7.9	6.0	4.8
82.5°	13.3	11.5	10.3	9.1	8.5	7.9	6.6	5.4	4.2	3.6	3.0
85°	7.2	6.0	5.4	4.8	4.2	4.2	3.6	3.0	2.4	1.8	1.2
87.5°	2.4	1.8	1.8	1.8	1.8	1.2	1.2	1.2	0.6	0.6	0.6
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	464.6	464.6	464.6	464.0	464.0	464.0	463.4	465.8	463.4	462.8	464.6
5°	464.0	462.8	462.8	462.8	462.8	462.2	461.6	462.8	461.0	460.4	460.4
7.5°	460.4	459.7	459.7	459.1	458.5	457.9	457.3	457.9	456.1	455.5	455.5
10°	461.0	459.7	459.7	457.9	456.7	454.9	453.1	453.7	451.3	449.5	449.5
12.5°	453.7	450.7	448.9	447.1	445.9	445.2	442.8	444.0	441.6	441.0	441.0
15°	437.4	433.8	430.7	429.5	429.5	428.3	426.5	428.9	427.7	428.3	431.4
17.5°	412.0	410.2	408.4	407.8	408.4	409.6	410.8	414.4	414.4	416.3	419.3
20°	389.7	388.5	389.7	389.7	390.3	392.7	395.1	398.1	399.3	401.1	405.4
22.5°	367.9	367.9	369.1	370.9	370.3	374.6	375.2	380.6	380.6	384.2	387.9
25°	346.8	346.8	348.0	348.6	349.8	352.2	354.6	358.9	360.1	363.7	366.7
27.5°	326.2	325.6	325.6	326.2	327.4	330.5	331.7	336.5	338.3	340.7	343.8
30°	303.3	302.7	303.9	305.1	304.5	307.5	309.3	312.9	314.2	316.6	319.0
32.5°	281.5	281.5	281.5	282.7	282.7	285.2	285.2	289.4	289.4	291.2	293.6
35°	259.2	259.2	259.8	260.4	261.0	261.6	262.2	264.6	265.2	265.8	267.0
37.5°	238.0	237.4	238.0	238.0	236.8	239.2	239.2	241.7	239.8	241.7	242.3
40°	216.3	216.3	215.7	215.7	215.7	216.9	215.7	217.5	216.3	217.5	216.9
42.5°	193.9	193.9	192.7	193.9	193.3	193.3	193.3	194.5	192.7	193.9	194.5
45°	171.6	171.0	171.0	170.4	170.4	170.4	171.0	171.0	170.4	171.6	171.6
47.5°	149.8	149.2	149.2	149.2	149.2	149.8	148.0	149.2	148.0	148.0	148.0
50°	131.1	130.5	129.9	129.3	128.7	128.7	128.1	128.1	126.9	126.3	125.7
52.5°	113.0	112.4	111.2	111.2	110.6	110.0	108.1	108.1	106.3	105.7	105.7
55°	96.7	94.8	94.2	93.0	93.0	91.8	90.6	89.4	87.6	86.4	86.4
57.5°	81.6	79.7	78.5	77.9	77.3	76.1	73.7	73.1	70.7	70.1	69.5
60°	68.3	66.5	64.6	63.4	62.8	61.0	58.6	57.4	56.2	54.4	52.6
62.5°	55.6	53.8	51.4	50.7	49.5	47.7	45.9	44.1	42.9	41.1	39.9
65°	44.7	42.9	41.1	39.9	38.7	36.9	35.0	33.2	32.0	31.4	30.8
67.5°	36.2	33.8	32.0	31.4	30.2	29.0	27.2	26.6	25.4	25.4	25.4
70°	28.4	26.6	24.8	24.2	23.6	22.4	21.1	21.1	21.1	21.1	21.1
72.5°	21.1	19.9	18.1	17.5	16.9	16.3	15.1	15.7	15.1	15.1	15.1
75°	13.3	12.1	10.9	10.3	9.7	9.1	8.5	7.9	7.2	6.6	6.6
77.5°	7.2	6.0	5.4	4.8	4.8	4.2	3.6	3.6	3.0	3.0	3.0
80°	4.2	3.6	3.0	2.4	2.4	1.8	1.8	1.8	1.8	1.2	1.2
82.5°	2.4	1.8	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
85°	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	465.2	465.2	465.2	465.2	465.2	465.2	465.2	465.2
2.5°	461.6	463.4	461.6	463.4	463.4	463.4	463.4	461.6
5°	458.5	459.7	457.9	459.1	459.7	459.1	459.1	457.3
7.5°	453.1	454.3	452.5	454.3	454.9	454.3	453.7	452.5
10°	447.7	448.3	446.5	447.7	448.9	448.9	448.3	446.5
12.5°	439.2	441.0	439.2	440.4	441.6	442.2	442.2	440.4
15°	429.5	432.6	431.4	433.2	435.0	435.6	435.6	435.0
17.5°	419.9	422.9	421.1	424.1	425.9	427.1	427.7	426.5
20°	406.0	409.6	408.4	410.8	413.2	415.0	415.0	413.2
22.5°	387.9	392.7	392.1	393.9	396.9	397.5	398.7	397.5
25°	367.9	371.5	370.9	372.8	376.4	376.4	377.0	377.0
27.5°	345.0	348.6	348.0	349.2	351.6	352.2	352.8	351.6
30°	320.2	322.0	322.0	323.8	325.6	326.2	326.2	324.4
32.5°	293.0	295.4	296.6	296.0	297.8	299.0	298.4	298.4
35°	268.2	268.8	269.4	270.0	270.7	271.9	270.7	270.0
37.5°	241.7	243.5	242.3	243.5	244.7	244.1	243.5	243.5
40°	217.5	218.1	216.9	218.1	218.7	218.7	218.7	217.5
42.5°	193.3	194.5	193.3	194.5	194.5	194.5	194.5	193.9
45°	169.2	170.4	170.4	171.0	171.0	170.4	170.4	170.4
47.5°	146.8	148.0	146.8	148.0	148.6	147.4	147.4	147.4
50°	125.7	125.1	125.1	125.7	125.7	125.7	125.7	125.1
52.5°	103.9	104.5	104.5	104.5	105.1	104.5	105.1	105.1
55°	85.2	85.2	85.2	85.8	85.2	85.2	85.8	86.4
57.5°	68.3	67.7	67.1	67.1	67.7	67.1	67.1	67.1
60°	52.6	52.0	51.4	51.4	51.4	51.4	51.4	50.7
62.5°	39.3	39.3	39.3	39.9	39.9	39.9	39.9	40.5
65°	31.4	31.4	31.4	31.4	31.4	31.4	31.4	32.0
67.5°	25.4	25.4	25.4	26.0	26.0	26.0	26.0	26.0
70°	21.1	21.1	21.7	21.1	21.7	21.7	21.7	21.7
72.5°	14.5	14.5	14.5	14.5	14.5	13.9	14.5	13.9
75°	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.4
77.5°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
80°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
82.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.6	0.6	0.6	0.6	0.6	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)