

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: P252244

Luminaire Tested: **LD6B10D010 EU6B10209730 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252244
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: LD6B10D010 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: 733.0 lumens
Efficiency: N/A
Efficacy: 72.9 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

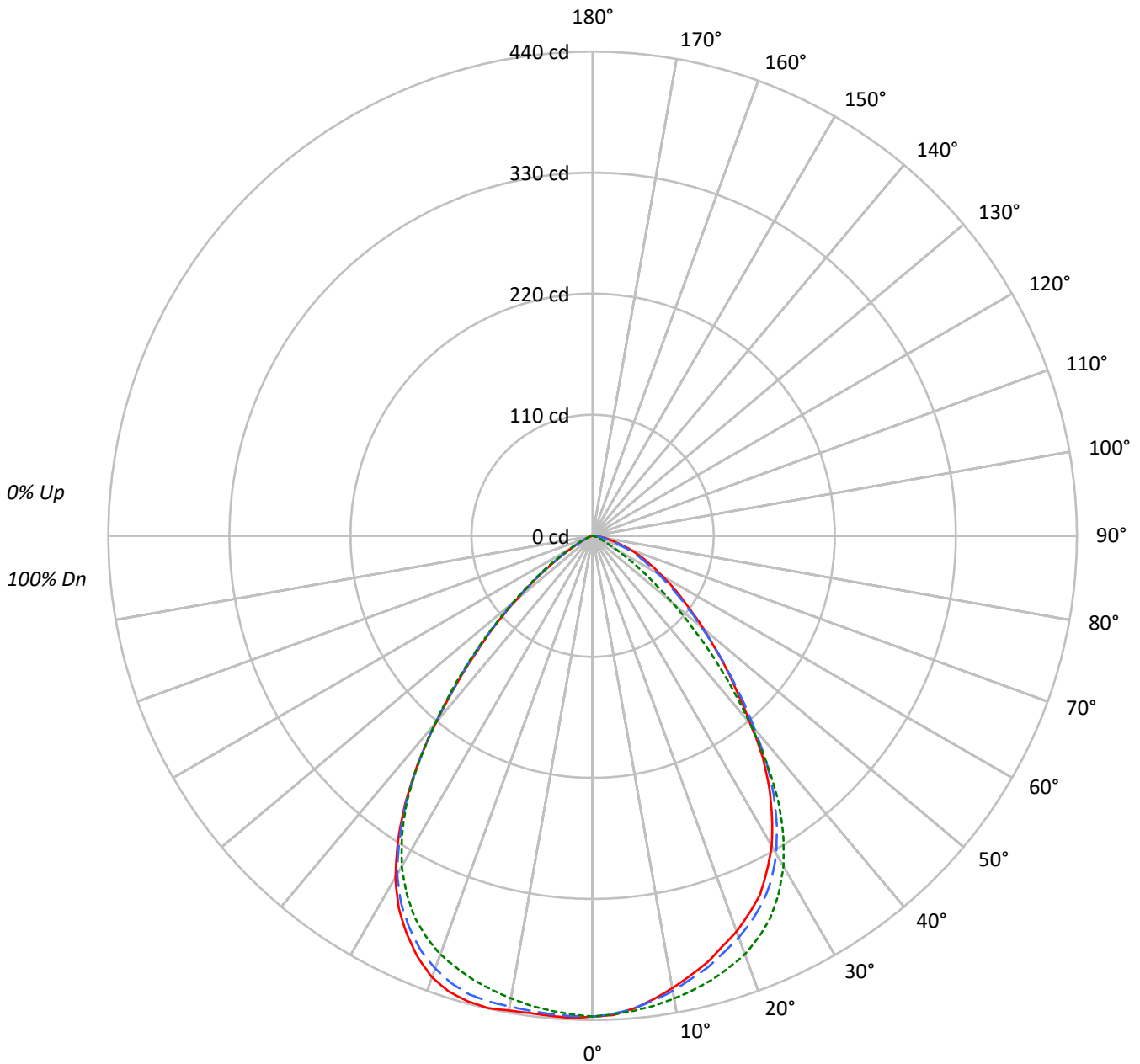
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	103	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°	28504	28504	28504
5°	28233	28370	28685
10°	27652	28281	29016
15°	27125	28226	29583
20°	26563	28097	29639
25°	25907	27541	28751
30°	24529	26118	26992
35°	22276	23407	23622
40°	19009	18924	18830
45°	15971	14172	13729
50°	13337	9591	9104
55°	11226	5881	5346
60°	9499	3092	2688
65°	8228	1636	1297
70°	6848	1011	706
75°	5067	655	403
80°	3982	413	188
85°	3144	374	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.2	5.6
10°-20°	117.9	16.1
20°-30°	174.1	23.8
30°-40°	179.4	24.5
40°-50°	123.9	16.9
50°-60°	61.1	8.3
60°-70°	24.8	3.4
70°-80°	8.8	1.2
80°-90°	1.8	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°	333.2	45.5
0°-40°	512.6	69.9
0°-60°	697.6	95.2
0°-90°	733.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	733.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	437	437	437	437	437	
5°	431	431	433	436	438	41
15°	402	406	418	432	438	113
25°	360	367	383	394	399	165
35°	280	286	294	296	297	173
45°	173	174	154	151	149	134
55°	99	95	52	48	47	89
65°	53	48	11	8	8	53
75°	20	17	3	2	2	23
85°	4	3	0	0	0	5
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°	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9
2.5°	435.9	434.3	435.3	433.2	435.9	433.2	433.7	434.3	433.7	434.3	434.8
5°	431.1	429.5	431.1	428.5	431.1	429.5	429.5	430.1	430.1	430.6	431.1
7.5°	424.8	423.2	424.8	422.1	425.3	423.7	423.7	424.8	424.2	424.8	425.8
10°	417.4	415.3	416.9	415.3	418.4	416.3	417.4	417.4	417.4	419.0	420.0
12.5°	409.5	407.4	409.5	406.8	410.0	408.4	408.9	410.5	411.1	412.1	412.6
15°	401.6	398.9	400.0	398.4	401.6	400.0	400.5	402.6	402.6	404.2	405.8
17.5°	391.5	389.4	391.5	389.4	392.1	391.0	392.1	393.6	393.6	395.2	396.8
20°	382.6	380.5	382.0	380.5	383.6	382.0	382.6	384.7	385.2	386.8	388.4
22.5°	371.5	369.9	371.0	369.4	372.5	371.5	372.0	374.1	374.6	375.7	378.3
25°	359.9	356.7	358.3	357.2	360.4	358.8	359.9	362.0	363.0	364.6	366.7
27.5°	343.0	341.4	342.5	342.5	345.1	343.5	344.0	346.2	347.7	349.3	352.0
30°	325.6	322.9	324.0	324.5	326.6	325.6	326.6	328.7	329.3	331.4	333.5
32.5°	303.4	302.4	304.5	303.4	304.5	304.5	305.0	306.6	307.6	308.7	311.3
35°	279.7	277.6	279.7	278.6	281.2	279.7	281.2	282.8	282.8	284.9	286.5
37.5°	253.8	251.2	252.2	252.2	253.3	252.8	252.8	255.4	255.9	257.5	259.1
40°	223.2	222.2	224.3	223.7	224.3	224.3	224.8	226.4	227.4	228.0	228.5
42.5°	195.8	196.3	196.8	196.8	196.8	196.8	196.8	198.9	198.4	200.0	200.5
45°	173.1	171.0	172.0	171.5	173.1	171.5	173.1	174.7	173.6	175.2	174.1
47.5°	149.9	149.9	149.9	149.3	150.4	149.9	150.9	151.4	151.4	151.4	150.9
50°	131.4	129.8	130.3	130.3	130.9	130.3	131.4	131.9	131.9	130.9	128.8
52.5°	113.4	112.9	112.9	114.0	114.0	113.4	113.4	113.4	113.4	111.9	110.8
55°	98.7	97.6	98.1	98.1	98.1	98.1	98.7	98.1	98.1	96.6	95.0
57.5°	85.5	84.4	84.4	84.4	85.0	84.4	84.4	84.4	83.9	82.3	80.2
60°	72.8	72.3	72.8	72.8	73.3	72.8	72.8	72.8	71.8	70.2	68.1
62.5°	62.3	62.3	62.3	62.8	62.8	62.3	62.3	61.7	61.2	59.1	57.0
65°	53.3	52.8	53.3	53.3	53.8	53.8	53.3	52.8	52.2	50.1	48.0
67.5°	44.3	43.8	44.3	44.3	44.9	44.3	44.3	44.3	42.7	41.7	39.6
70°	35.9	35.4	35.4	35.4	35.9	34.8	35.4	35.4	34.3	32.7	30.6
72.5°	27.4	27.4	27.4	27.4	27.4	27.4	26.9	26.9	25.9	24.3	23.2
75°	20.1	20.1	20.6	20.6	20.1	20.1	20.1	19.5	19.0	17.9	16.9
77.5°	14.8	14.8	14.8	14.8	14.2	14.2	14.2	13.7	13.2	12.7	11.6
80°	10.6	10.6	10.6	10.0	10.6	10.0	10.0	10.0	9.0	8.4	7.9
82.5°	7.4	6.9	6.9	6.9	6.9	6.9	6.9	6.3	6.3	5.8	5.3
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.7	3.2	3.2
87.5°	2.1	2.6	2.6	2.6	2.6	2.6	2.6	2.1	2.1	2.1	1.6
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9
2.5°	434.8	434.8	435.9	434.3	436.9	435.3	434.8	437.4	435.9	435.3	436.4
5°	431.1	431.6	432.2	431.1	433.7	432.2	432.2	434.8	433.7	433.2	434.8
7.5°	426.4	426.9	427.9	427.4	429.5	428.5	429.0	431.6	430.6	430.6	432.2
10°	420.6	421.6	422.7	422.7	425.3	424.2	424.2	427.4	426.4	426.9	429.0
12.5°	413.7	415.3	416.9	417.4	420.0	418.4	419.0	422.7	422.1	422.7	424.8
15°	406.3	408.4	410.0	410.0	413.2	411.6	413.2	416.9	415.8	417.9	420.6
17.5°	397.9	400.0	402.1	402.6	405.8	404.7	406.8	410.5	410.5	411.6	414.8
20°	390.0	392.6	393.6	395.2	398.4	397.9	398.9	403.1	403.1	404.7	407.9
22.5°	379.4	382.0	384.1	385.7	388.4	388.4	390.0	393.6	393.6	394.7	397.9
25°	367.8	371.0	372.5	374.1	376.8	376.2	377.8	381.0	381.5	382.6	385.7
27.5°	353.0	355.7	357.8	358.8	362.5	360.4	362.0	365.7	365.1	366.2	368.8
30°	334.5	337.2	339.3	339.3	342.5	342.5	344.0	345.6	345.6	346.7	348.8
32.5°	312.9	316.1	316.1	317.7	319.8	317.7	319.8	321.9	320.8	322.4	324.0
35°	288.1	289.7	290.2	290.2	291.8	291.3	290.7	292.3	291.3	293.9	295.5
37.5°	258.0	260.1	259.1	260.1	259.6	258.0	258.0	260.7	258.6	259.1	260.7
40°	229.0	229.0	228.5	225.8	226.4	224.8	224.3	224.8	222.7	222.2	224.3
42.5°	198.9	198.4	196.8	193.1	193.7	191.0	188.9	188.9	187.9	187.3	187.9
45°	172.0	170.4	167.8	163.6	162.5	160.4	156.2	155.1	153.6	153.6	154.1
47.5°	147.2	145.1	140.9	136.1	133.5	130.9	126.6	125.1	122.4	121.4	122.4
50°	126.6	122.9	117.7	110.8	108.2	105.0	100.8	98.1	95.5	94.5	93.9
52.5°	107.6	102.4	97.1	88.6	86.5	83.4	77.6	74.9	72.3	70.2	70.2
55°	91.3	86.5	79.2	71.2	68.1	64.9	59.1	55.4	52.8	51.7	50.7
57.5°	76.5	71.2	64.4	55.9	52.8	49.6	43.8	40.1	37.5	35.9	34.8
60°	64.4	58.6	51.7	44.3	40.6	37.5	31.7	28.0	25.3	23.7	22.7
62.5°	52.8	48.0	41.2	34.3	31.1	28.0	23.2	19.5	16.9	15.8	14.2
65°	44.3	39.6	33.2	27.4	24.8	21.6	17.4	14.2	12.1	10.6	9.5
67.5°	35.9	32.2	26.9	21.6	19.0	16.9	13.2	10.6	8.4	7.4	6.9
70°	28.5	24.8	20.6	16.4	14.8	12.7	10.0	7.4	6.3	5.3	4.7
72.5°	21.1	18.5	15.3	12.1	10.6	9.5	6.9	5.8	4.2	3.7	3.2
75°	15.3	13.2	11.1	8.4	7.4	6.9	5.3	3.7	3.2	2.6	2.1
77.5°	10.6	9.5	7.4	5.8	5.3	4.7	3.7	2.6	2.1	1.6	1.6
80°	6.9	5.8	4.7	3.7	3.7	3.2	2.1	1.6	1.6	1.1	1.1
82.5°	4.2	3.7	3.2	2.6	2.1	2.1	1.6	1.1	1.1	0.5	0.5
85°	2.6	2.1	1.6	1.6	1.1	1.1	1.1	0.5	0.5	0.5	0.5
87.5°	1.1	1.1	1.1	0.5	0.5	0.5	0.5	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°	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9
2.5°	436.4	436.4	437.4	435.9	436.9	436.9	438.0	435.9	436.9	437.4	438.5
5°	434.3	434.8	435.9	435.3	435.9	435.9	436.9	434.3	436.4	436.4	438.0
7.5°	432.2	432.2	433.2	432.7	433.7	434.3	435.3	433.2	435.3	435.3	436.9
10°	429.5	429.5	431.1	430.6	432.2	432.7	434.3	432.2	434.3	434.8	436.4
12.5°	425.8	426.4	427.9	427.9	429.5	430.6	432.2	431.1	433.7	434.3	436.4
15°	421.6	422.7	424.8	424.2	425.8	427.4	429.5	427.9	431.6	432.7	434.8
17.5°	416.3	417.4	419.0	419.0	420.6	421.6	424.2	423.2	426.4	426.9	429.5
20°	408.4	410.0	412.1	411.6	413.2	414.2	416.3	415.3	418.4	419.5	422.1
22.5°	398.9	400.0	401.6	401.6	403.1	404.2	406.3	404.7	407.9	408.4	410.5
25°	386.3	387.3	388.4	388.9	390.5	391.0	392.1	391.0	393.6	394.2	396.8
27.5°	369.9	370.4	372.0	372.0	373.1	373.6	375.2	373.1	376.8	376.8	378.3
30°	350.4	349.8	352.0	350.9	352.0	352.0	353.5	352.5	355.1	354.1	355.7
32.5°	324.5	325.6	325.6	324.5	326.6	326.1	326.1	325.0	326.6	327.2	328.2
35°	294.4	296.0	296.0	296.6	297.1	295.5	296.0	292.9	295.5	296.0	296.6
37.5°	261.7	260.1	261.2	259.6	262.3	259.1	259.1	257.0	259.1	259.1	259.6
40°	224.3	223.7	224.8	223.7	223.2	222.7	221.6	220.0	222.2	221.1	222.7
42.5°	188.9	188.4	188.4	187.3	186.8	186.8	185.7	184.7	184.2	184.2	186.8
45°	152.5	153.6	152.5	152.0	153.0	152.0	152.5	150.4	151.4	150.4	151.4
47.5°	121.9	122.4	121.4	120.3	121.9	120.3	120.3	118.7	120.8	120.8	119.8
50°	94.5	93.9	92.9	93.9	93.4	93.4	93.4	91.8	92.9	91.3	92.3
52.5°	69.7	69.1	69.1	68.6	69.1	68.6	68.6	68.1	68.1	67.5	68.1
55°	50.7	50.1	49.1	49.1	49.1	49.6	49.1	48.5	48.5	48.0	48.5
57.5°	34.3	33.2	33.2	33.2	33.2	32.7	32.7	32.2	32.7	32.2	32.7
60°	22.2	22.2	21.1	21.1	21.1	21.1	21.1	20.6	21.1	21.1	21.1
62.5°	13.7	13.7	13.2	12.7	13.2	12.7	12.7	12.7	13.2	12.7	13.2
65°	9.0	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
67.5°	6.3	5.8	5.8	5.8	5.8	5.8	5.8	5.3	5.8	5.8	5.8
70°	4.2	4.2	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	2.1	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.6	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	1.1	1.1	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.5	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	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	436.9	436.9	436.9	436.9	436.9	436.9	436.9	436.9
2.5°	436.9	437.4	436.4	436.9	435.9	436.9	437.4	438.5
5°	435.9	436.4	435.3	436.4	435.3	436.4	436.9	438.0
7.5°	434.8	435.9	434.8	435.9	434.8	435.9	436.4	437.4
10°	434.8	436.4	435.3	436.9	435.3	436.4	437.4	438.0
12.5°	434.8	436.4	435.9	436.9	436.4	437.4	438.5	439.6
15°	433.7	435.3	434.3	435.9	435.3	435.9	438.0	438.0
17.5°	427.9	429.5	429.5	430.6	430.6	432.2	433.2	434.3
20°	420.6	422.1	421.6	423.2	423.2	424.8	425.8	426.9
22.5°	409.5	411.6	411.1	412.6	412.1	413.2	415.3	414.8
25°	395.2	397.9	397.3	398.4	397.9	397.9	398.9	399.4
27.5°	377.8	379.4	378.9	379.9	378.9	379.9	381.0	381.5
30°	355.1	356.2	355.7	356.2	355.7	356.7	357.2	358.3
32.5°	327.7	329.3	327.7	328.7	328.2	328.2	330.3	329.3
35°	295.0	295.5	296.0	296.0	295.0	295.5	296.6	296.6
37.5°	258.6	261.2	258.0	259.6	259.1	259.1	259.1	260.7
40°	220.6	221.1	220.0	220.0	220.0	219.5	221.6	221.1
42.5°	184.7	185.2	184.7	183.1	183.6	183.6	185.2	183.1
45°	149.9	150.9	150.4	150.4	149.3	149.3	149.9	148.8
47.5°	118.7	119.8	118.2	118.7	117.7	118.7	118.2	119.3
50°	90.2	91.3	90.8	91.3	91.3	90.2	91.8	89.7
52.5°	67.5	68.1	67.5	67.0	66.5	66.5	67.5	67.0
55°	48.0	47.5	47.5	47.5	48.0	48.0	47.5	47.0
57.5°	32.2	32.2	31.7	31.7	32.2	31.1	31.7	31.1
60°	20.6	20.6	20.6	20.6	20.1	20.6	20.6	20.6
62.5°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
65°	8.4	8.4	8.4	8.4	8.4	8.4	8.4	8.4
67.5°	5.3	5.8	5.8	5.8	5.3	5.3	5.3	5.3
70°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
77.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
80°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.5	0.5	0.5	0.5	0.5	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)