

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: P252237

Luminaire Tested: **LD6B10D010 EU6B10209024 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252237
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 EU6B10209024 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 710.0 lumens
Efficiency: N/A
Efficacy: 70.6 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

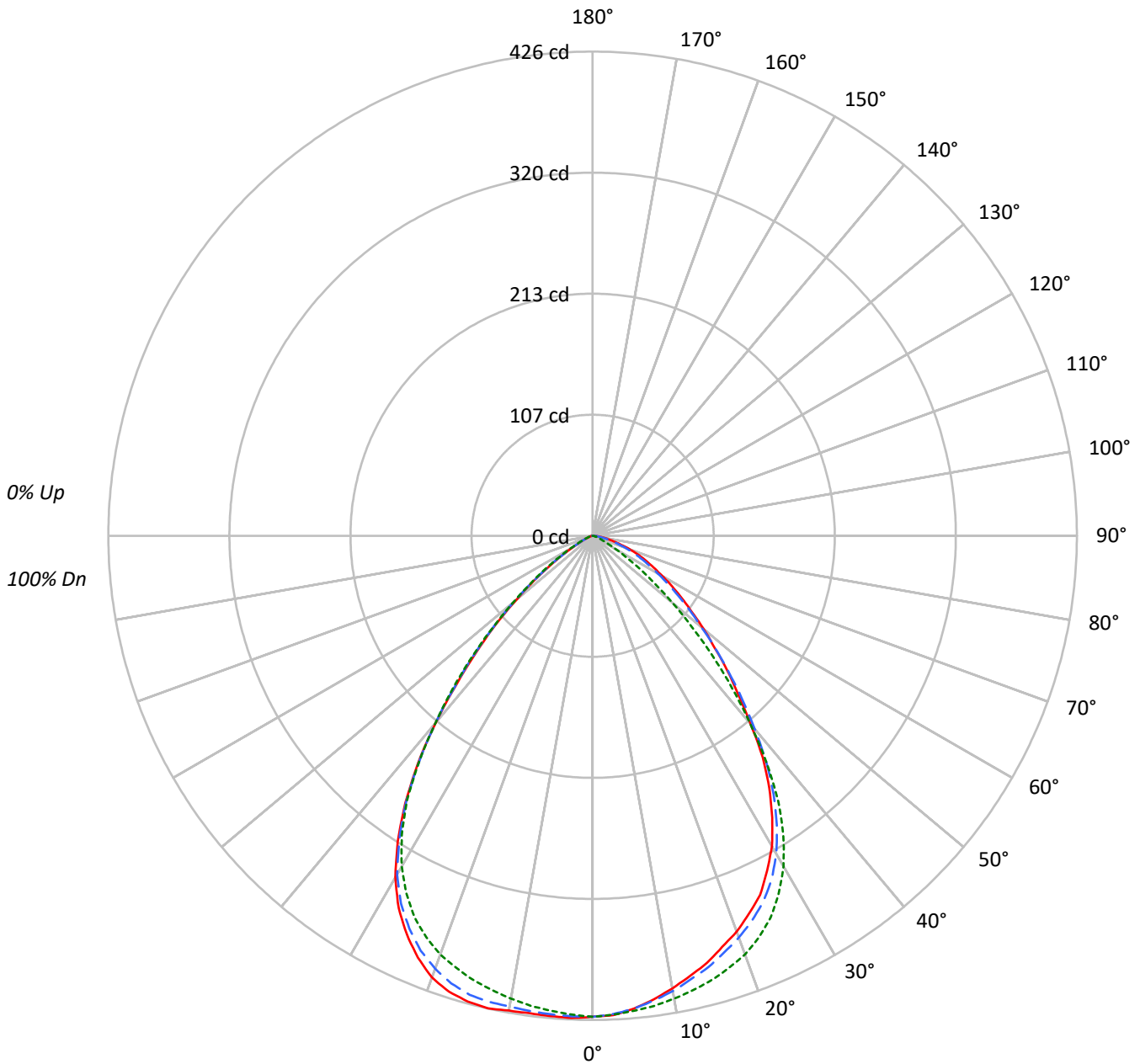
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	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°	27610	27610	27610
5°	27349	27480	27781
10°	26784	27393	28102
15°	26274	27341	28651
20°	25730	27216	28708
25°	25094	26678	27851
30°	23760	25297	26141
35°	21576	22675	22874
40°	18413	18328	18242
45°	15463	13720	13295
50°	12920	9287	8820
55°	10874	5699	5175
60°	9199	3001	2597
65°	7966	1575	1266
70°	6638	973	687
75°	4890	655	378
80°	3832	376	188
85°	3069	374	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.9	5.6
10°-20°	114.2	16.1
20°-30°	168.6	23.8
30°-40°	173.8	24.5
40°-50°	120.0	16.9
50°-60°	59.2	8.3
60°-70°	24.0	3.4
70°-80°	8.5	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°	322.7	45.5
0°-40°	496.5	69.9
0°-60°	675.7	95.2
0°-90°	710.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	710.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	423	423	423	423	423	
5°	418	418	420	423	424	39
15°	389	393	405	418	424	110
25°	349	355	371	381	387	159
35°	271	278	285	286	287	168
45°	168	169	149	147	144	130
55°	96	92	50	47	46	86
65°	52	46	10	8	8	51
75°	19	16	3	2	2	22
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°	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2
2.5°	422.2	420.6	421.7	419.6	422.2	419.6	420.1	420.6	420.1	420.6	421.2
5°	417.6	416.0	417.6	415.0	417.6	416.0	416.0	416.6	416.6	417.1	417.6
7.5°	411.4	409.9	411.4	408.9	412.0	410.4	410.4	411.4	410.9	411.4	412.5
10°	404.3	402.2	403.8	402.2	405.3	403.3	404.3	404.3	404.3	405.8	406.8
12.5°	396.6	394.6	396.6	394.1	397.1	395.6	396.1	397.6	398.2	399.2	399.7
15°	389.0	386.4	387.4	385.9	389.0	387.4	387.9	390.0	390.0	391.5	393.0
17.5°	379.2	377.2	379.2	377.2	379.8	378.7	379.8	381.3	381.3	382.8	384.4
20°	370.6	368.5	370.0	368.5	371.6	370.0	370.6	372.6	373.1	374.6	376.2
22.5°	359.8	358.3	359.3	357.8	360.8	359.8	360.3	362.4	362.9	363.9	366.5
25°	348.6	345.5	347.0	346.0	349.1	347.6	348.6	350.6	351.6	353.2	355.2
27.5°	332.2	330.7	331.7	331.7	334.3	332.7	333.2	335.3	336.8	338.4	340.9
30°	315.4	312.8	313.8	314.3	316.4	315.4	316.4	318.4	318.9	321.0	323.0
32.5°	293.9	292.9	294.9	293.9	294.9	294.9	295.4	297.0	298.0	299.0	301.6
35°	270.9	268.8	270.9	269.9	272.4	270.9	272.4	274.0	274.0	276.0	277.5
37.5°	245.8	243.3	244.3	244.3	245.3	244.8	244.8	247.4	247.9	249.4	251.0
40°	216.2	215.2	217.2	216.7	217.2	217.2	217.7	219.3	220.3	220.8	221.3
42.5°	189.6	190.1	190.6	190.6	190.6	190.6	190.6	192.7	192.2	193.7	194.2
45°	167.6	165.6	166.6	166.1	167.6	166.1	167.6	169.2	168.2	169.7	168.7
47.5°	145.2	145.2	145.2	144.6	145.7	145.2	146.2	146.7	146.7	146.7	146.2
50°	127.3	125.7	126.2	126.2	126.8	126.2	127.3	127.8	127.8	126.8	124.7
52.5°	109.9	109.4	109.4	110.4	110.4	109.9	109.9	109.9	109.9	108.4	107.3
55°	95.6	94.6	95.1	95.1	95.1	95.1	95.6	95.1	95.1	93.5	92.0
57.5°	82.8	81.8	81.8	81.8	82.3	81.8	81.8	81.8	81.3	79.7	77.7
60°	70.5	70.0	70.5	70.5	71.0	70.5	70.5	70.5	69.5	68.0	65.9
62.5°	60.3	60.3	60.3	60.8	60.8	60.3	60.3	59.8	59.3	57.2	55.2
65°	51.6	51.1	51.6	51.6	52.1	52.1	51.6	51.1	50.6	48.6	46.5
67.5°	42.9	42.4	42.9	42.9	43.4	42.9	42.9	42.9	41.4	40.4	38.3
70°	34.8	34.2	34.2	34.2	34.8	33.7	34.2	34.2	33.2	31.7	29.6
72.5°	26.6	26.6	26.6	26.6	26.6	26.6	26.1	26.1	25.0	23.5	22.5
75°	19.4	19.4	19.9	19.9	19.4	19.4	19.4	18.9	18.4	17.4	16.4
77.5°	14.3	14.3	14.3	14.3	13.8	13.8	13.8	13.3	12.8	12.3	11.2
80°	10.2	10.2	10.2	9.7	10.2	9.7	9.7	9.7	8.7	8.2	7.7
82.5°	7.2	6.6	6.6	6.6	6.6	6.6	6.6	6.1	6.1	5.6	5.1
85°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	3.6	3.1	3.1
87.5°	2.0	2.6	2.6	2.6	2.6	2.6	2.6	2.0	2.0	2.0	1.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2
2.5°	421.2	421.2	422.2	420.6	423.2	421.7	421.2	423.7	422.2	421.7	422.7
5°	417.6	418.1	418.6	417.6	420.1	418.6	418.6	421.2	420.1	419.6	421.2
7.5°	413.0	413.5	414.5	414.0	416.0	415.0	415.5	418.1	417.1	417.1	418.6
10°	407.4	408.4	409.4	409.4	412.0	410.9	410.9	414.0	413.0	413.5	415.5
12.5°	400.7	402.2	403.8	404.3	406.8	405.3	405.8	409.4	408.9	409.4	411.4
15°	393.6	395.6	397.1	397.1	400.2	398.7	400.2	403.8	402.8	404.8	407.4
17.5°	385.4	387.4	389.5	390.0	393.0	392.0	394.1	397.6	397.6	398.7	401.7
20°	377.7	380.3	381.3	382.8	385.9	385.4	386.4	390.5	390.5	392.0	395.1
22.5°	367.5	370.0	372.1	373.6	376.2	376.2	377.7	381.3	381.3	382.3	385.4
25°	356.2	359.3	360.8	362.4	364.9	364.4	366.0	369.0	369.5	370.6	373.6
27.5°	341.9	344.5	346.5	347.6	351.1	349.1	350.6	354.2	353.7	354.7	357.3
30°	324.0	326.6	328.6	328.6	331.7	331.7	333.2	334.8	334.8	335.8	337.8
32.5°	303.1	306.2	306.2	307.7	309.7	307.7	309.7	311.8	310.8	312.3	313.8
35°	279.1	280.6	281.1	281.1	282.6	282.1	281.6	283.2	282.1	284.7	286.2
37.5°	249.9	252.0	251.0	252.0	251.5	249.9	249.9	252.5	250.4	251.0	252.5
40°	221.8	221.8	221.3	218.8	219.3	217.7	217.2	217.7	215.7	215.2	217.2
42.5°	192.7	192.2	190.6	187.1	187.6	185.0	183.0	183.0	182.0	181.4	182.0
45°	166.6	165.1	162.5	158.4	157.4	155.4	151.3	150.3	148.7	148.7	149.2
47.5°	142.6	140.6	136.5	131.9	129.3	126.8	122.7	121.1	118.6	117.6	118.6
50°	122.7	119.1	114.0	107.3	104.8	101.7	97.6	95.1	92.5	91.5	91.0
52.5°	104.3	99.2	94.0	85.9	83.8	80.8	75.1	72.6	70.0	68.0	68.0
55°	88.4	83.8	76.7	69.0	65.9	62.9	57.2	53.7	51.1	50.1	49.1
57.5°	74.1	69.0	62.4	54.2	51.1	48.0	42.4	38.8	36.3	34.8	33.7
60°	62.4	56.7	50.1	42.9	39.4	36.3	30.7	27.1	24.5	23.0	22.0
62.5°	51.1	46.5	39.9	33.2	30.2	27.1	22.5	18.9	16.4	15.3	13.8
65°	42.9	38.3	32.2	26.6	24.0	21.0	16.9	13.8	11.8	10.2	9.2
67.5°	34.8	31.2	26.1	21.0	18.4	16.4	12.8	10.2	8.2	7.2	6.6
70°	27.6	24.0	19.9	15.8	14.3	12.3	9.7	7.2	6.1	5.1	4.6
72.5°	20.4	17.9	14.8	11.8	10.2	9.2	6.6	5.6	4.1	3.6	3.1
75°	14.8	12.8	10.7	8.2	7.2	6.6	5.1	3.6	3.1	2.6	2.0
77.5°	10.2	9.2	7.2	5.6	5.1	4.6	3.6	2.6	2.0	1.5	1.5
80°	6.6	5.6	4.6	3.6	3.6	3.1	2.0	1.5	1.5	1.0	1.0
82.5°	4.1	3.6	3.1	2.6	2.0	2.0	1.5	1.0	1.0	0.5	0.5
85°	2.6	2.0	1.5	1.5	1.0	1.0	1.0	0.5	0.5	0.5	0.5
87.5°	1.0	1.0	1.0	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°	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2
2.5°	422.7	422.7	423.7	422.2	423.2	423.2	424.2	422.2	423.2	423.7	424.7
5°	420.6	421.2	422.2	421.7	422.2	422.2	423.2	420.6	422.7	422.7	424.2
7.5°	418.6	418.6	419.6	419.1	420.1	420.6	421.7	419.6	421.7	421.7	423.2
10°	416.0	416.0	417.6	417.1	418.6	419.1	420.6	418.6	420.6	421.2	422.7
12.5°	412.5	413.0	414.5	414.5	416.0	417.1	418.6	417.6	420.1	420.6	422.7
15°	408.4	409.4	411.4	410.9	412.5	414.0	416.0	414.5	418.1	419.1	421.2
17.5°	403.3	404.3	405.8	405.8	407.4	408.4	410.9	409.9	413.0	413.5	416.0
20°	395.6	397.1	399.2	398.7	400.2	401.2	403.3	402.2	405.3	406.3	408.9
22.5°	386.4	387.4	389.0	389.0	390.5	391.5	393.6	392.0	395.1	395.6	397.6
25°	374.1	375.2	376.2	376.7	378.2	378.7	379.8	378.7	381.3	381.8	384.4
27.5°	358.3	358.8	360.3	360.3	361.4	361.9	363.4	361.4	364.9	364.9	366.5
30°	339.4	338.9	340.9	339.9	340.9	340.9	342.4	341.4	344.0	343.0	344.5
32.5°	314.3	315.4	315.4	314.3	316.4	315.9	315.9	314.8	316.4	316.9	317.9
35°	285.2	286.7	286.7	287.2	287.8	286.2	286.7	283.7	286.2	286.7	287.2
37.5°	253.5	252.0	253.0	251.5	254.0	251.0	251.0	248.9	251.0	251.0	251.5
40°	217.2	216.7	217.7	216.7	216.2	215.7	214.7	213.1	215.2	214.2	215.7
42.5°	183.0	182.5	182.5	181.4	180.9	180.9	179.9	178.9	178.4	178.4	180.9
45°	147.7	148.7	147.7	147.2	148.2	147.2	147.7	145.7	146.7	145.7	146.7
47.5°	118.1	118.6	117.6	116.5	118.1	116.5	116.5	115.0	117.0	117.0	116.0
50°	91.5	91.0	90.0	91.0	90.5	90.5	90.5	88.9	90.0	88.4	89.4
52.5°	67.5	67.0	67.0	66.4	67.0	66.4	66.4	65.9	65.9	65.4	65.9
55°	49.1	48.6	47.5	47.5	47.5	48.0	47.5	47.0	47.0	46.5	47.0
57.5°	33.2	32.2	32.2	32.2	32.2	31.7	31.7	31.2	31.7	31.2	31.7
60°	21.5	21.5	20.4	20.4	20.4	20.4	20.4	19.9	20.4	20.4	20.4
62.5°	13.3	13.3	12.8	12.3	12.8	12.3	12.3	12.3	12.8	12.3	12.8
65°	8.7	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
67.5°	6.1	5.6	5.6	5.6	5.6	5.6	5.6	5.1	5.6	5.6	5.6
70°	4.1	4.1	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
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°	2.0	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.5	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
80°	1.0	1.0	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°	423.2	423.2	423.2	423.2	423.2	423.2	423.2	423.2
2.5°	423.2	423.7	422.7	423.2	422.2	423.2	423.7	424.7
5°	422.2	422.7	421.7	422.7	421.7	422.7	423.2	424.2
7.5°	421.2	422.2	421.2	422.2	421.2	422.2	422.7	423.7
10°	421.2	422.7	421.7	423.2	421.7	422.7	423.7	424.2
12.5°	421.2	422.7	422.2	423.2	422.7	423.7	424.7	425.8
15°	420.1	421.7	420.6	422.2	421.7	422.2	424.2	424.2
17.5°	414.5	416.0	416.0	417.1	417.1	418.6	419.6	420.6
20°	407.4	408.9	408.4	409.9	409.9	411.4	412.5	413.5
22.5°	396.6	398.7	398.2	399.7	399.2	400.2	402.2	401.7
25°	382.8	385.4	384.9	385.9	385.4	385.4	386.4	386.9
27.5°	366.0	367.5	367.0	368.0	367.0	368.0	369.0	369.5
30°	344.0	345.0	344.5	345.0	344.5	345.5	346.0	347.0
32.5°	317.4	318.9	317.4	318.4	317.9	317.9	320.0	318.9
35°	285.7	286.2	286.7	286.7	285.7	286.2	287.2	287.2
37.5°	250.4	253.0	249.9	251.5	251.0	251.0	251.0	252.5
40°	213.6	214.2	213.1	213.1	213.1	212.6	214.7	214.2
42.5°	178.9	179.4	178.9	177.4	177.9	177.9	179.4	177.4
45°	145.2	146.2	145.7	145.7	144.6	144.6	145.2	144.1
47.5°	115.0	116.0	114.5	115.0	114.0	115.0	114.5	115.5
50°	87.4	88.4	87.9	88.4	88.4	87.4	88.9	86.9
52.5°	65.4	65.9	65.4	64.9	64.4	64.4	65.4	64.9
55°	46.5	46.0	46.0	46.0	46.5	46.5	46.0	45.5
57.5°	31.2	31.2	30.7	30.7	31.2	30.2	30.7	30.2
60°	19.9	19.9	19.9	19.9	19.4	19.9	19.9	19.9
62.5°	12.3	12.3	12.3	12.3	12.3	12.3	12.3	12.3
65°	8.2	8.2	8.2	8.2	8.2	8.2	8.2	8.2
67.5°	5.1	5.6	5.6	5.6	5.1	5.1	5.1	5.1
70°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
72.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
75°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
77.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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)