

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: P252667

Luminaire Tested: **LD6B15D010 EU6B10209027 6LBDW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252667
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-9)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209027 6LBDW1H
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1124.0 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Spacing Criteria (0/90/45): 1.22 / 1.25 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

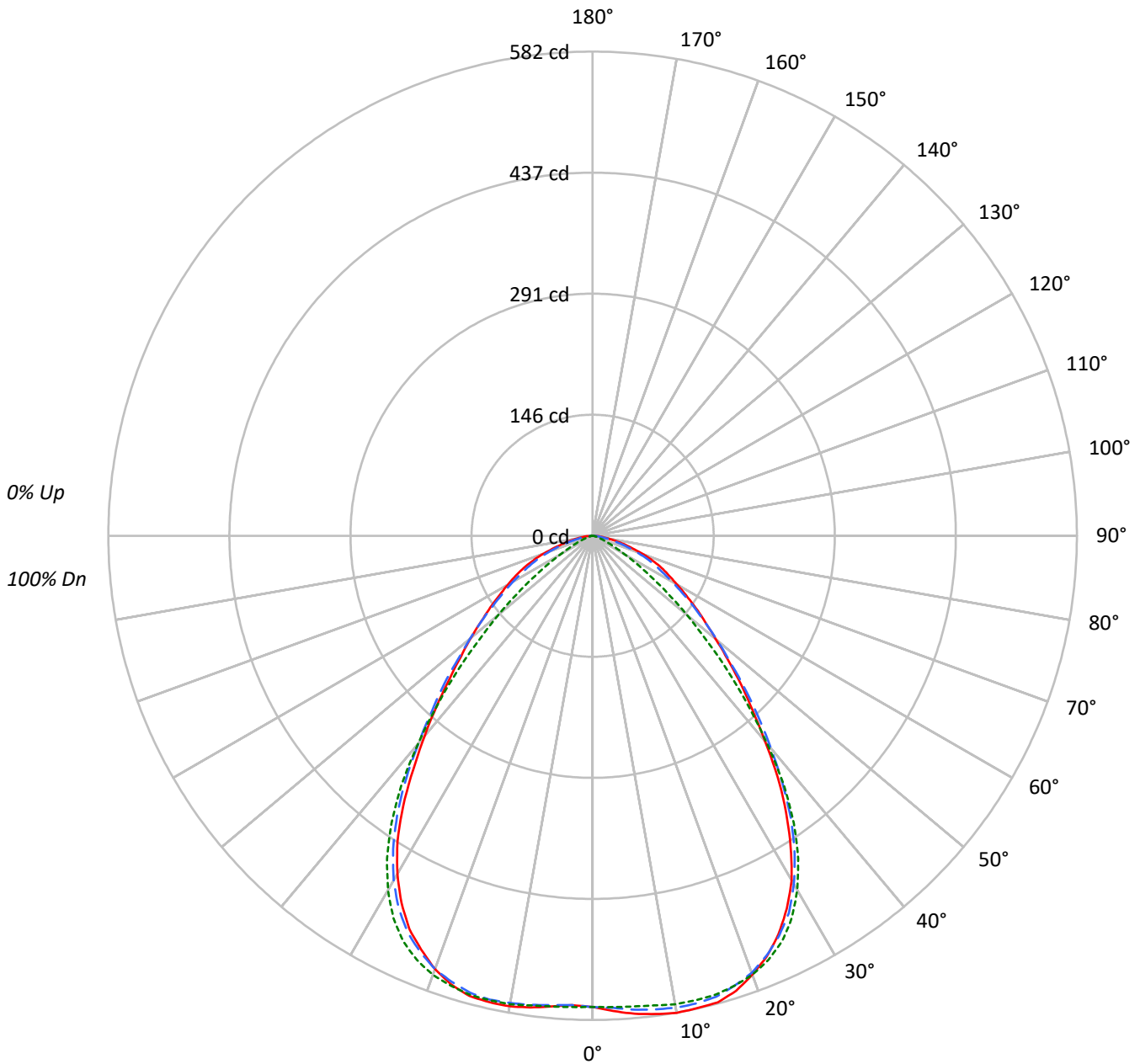
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					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	109	105	102	99	101	98	96	97	95	93	94	92	91	89								
2	103	96	91	86	101	95	89	85	91	87	83	88	84	81	85	82	80	78								
3	95	87	80	75	93	85	79	74	82	77	73	80	75	71	77	74	70	68								
4	89	78	71	65	87	77	70	65	75	69	64	73	67	63	71	66	62	61								
5	82	71	64	58	80	70	63	58	68	62	57	66	61	56	65	60	56	54								
6	77	65	57	52	75	64	57	51	63	56	51	61	55	51	59	54	50	48								
7	72	60	52	47	70	59	52	46	58	51	46	56	50	46	55	50	45	44								
8	67	55	47	42	66	54	47	42	53	47	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	39	35	45	39	35	44	39	35	33								

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36946	36946	36946
5°	37768	37192	37192
10°	38576	37887	38046
15°	39222	38573	38681
20°	38984	38984	38484
25°	38051	38750	37533
30°	36024	37049	35361
35°	32280	33554	31643
40°	27423	27764	26742
45°	23204	21212	22393
50°	19589	14961	19345
55°	17221	9657	17039
60°	15253	5754	15358
65°	14094	3458	14094
70°	12227	1984	11922
75°	9680	1210	9075
80°	7214	902	6913
85°	6587	599	5988



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	4.9
10°-20°	161.4	14.4
20°-30°	242.7	21.6
30°-40°	255.2	22.7
40°-50°	190.6	17.0
50°-60°	118.7	10.6
60°-70°	67.5	6.0
70°-80°	27.8	2.5
80°-90°	5.7	0.5
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°	458.6	40.8
0°-40°	713.7	63.5
0°-60°	1023.0	91.0
0°-90°	1124.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1124.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	566	566	566	566	566	
5°	577	572	568	566	568	55
15°	581	574	571	569	573	163
25°	529	530	538	526	521	242
35°	405	416	421	409	397	251
45°	252	257	230	252	243	195
55°	151	148	85	146	150	136
65°	91	82	22	82	91	90
75°	38	30	5	30	36	42
85°	9	6	1	5	8	10
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°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	571.9	571.1	571.9	570.3	569.5	569.5	570.3	568.7	567.9	568.7	567.9
5°	576.7	575.1	575.9	575.1	573.5	573.5	574.3	571.9	571.9	572.7	571.9
7.5°	579.9	579.9	579.9	578.3	577.5	576.7	578.3	575.9	575.1	575.1	574.3
10°	582.3	581.5	582.3	580.7	579.1	578.3	579.9	578.3	576.7	578.3	575.9
12.5°	581.5	581.5	581.5	580.7	579.1	578.3	579.9	577.5	576.7	577.5	575.9
15°	580.7	578.3	579.1	578.3	575.9	575.9	576.7	574.3	572.7	575.1	573.5
17.5°	573.5	571.9	572.7	571.1	569.5	568.7	569.5	568.7	567.1	568.7	567.1
20°	561.5	561.5	562.3	560.7	559.1	558.3	559.9	558.3	556.7	559.1	559.1
22.5°	547.1	547.1	547.1	546.3	545.5	545.5	545.5	544.7	543.9	545.5	546.3
25°	528.6	527.8	528.6	529.5	528.6	527.8	528.6	528.6	527.0	530.3	530.3
27.5°	505.4	505.4	507.0	506.2	506.2	505.4	507.0	507.0	506.2	508.6	511.0
30°	478.2	476.6	478.2	478.2	479.0	479.0	479.8	479.8	479.8	482.2	483.8
32.5°	442.9	443.7	446.1	445.3	444.5	446.9	446.9	448.6	449.4	451.0	451.8
35°	405.3	406.1	406.1	406.9	408.5	406.9	410.9	410.1	410.9	414.1	415.7
37.5°	365.2	362.8	366.9	365.2	366.0	366.0	367.7	368.5	370.9	374.9	374.9
40°	322.0	322.8	324.4	325.2	326.0	326.0	326.0	328.4	329.2	334.0	333.2
42.5°	284.3	284.3	286.0	286.8	286.8	286.8	286.8	289.2	290.8	292.4	294.0
45°	251.5	249.1	250.7	250.7	252.3	251.5	253.1	254.7	255.5	257.9	257.1
47.5°	220.3	219.5	220.3	221.1	220.3	221.1	221.9	222.7	223.5	223.5	223.5
50°	193.0	193.0	193.8	194.6	194.6	194.6	194.6	195.4	195.4	197.0	195.4
52.5°	170.6	171.4	171.4	170.6	171.4	171.4	172.2	172.2	171.4	171.4	169.0
55°	151.4	150.6	151.4	150.6	151.4	151.4	150.6	150.6	149.8	149.0	148.2
57.5°	133.0	133.0	133.0	133.0	132.2	133.0	132.2	131.4	131.4	129.8	127.4
60°	116.9	116.9	116.9	116.9	116.9	116.1	116.9	116.1	114.5	112.9	109.7
62.5°	103.3	102.5	103.3	102.5	102.5	101.7	101.7	100.9	99.3	97.7	94.5
65°	91.3	92.1	91.3	91.3	90.5	89.7	89.7	88.9	86.5	84.9	81.7
67.5°	78.5	77.7	77.7	77.7	76.9	76.9	76.9	75.3	73.7	71.3	68.1
70°	64.1	64.1	64.1	63.3	63.3	62.5	62.5	61.7	60.1	58.5	54.5
72.5°	50.5	50.5	50.5	48.9	49.7	48.9	48.9	47.3	46.5	44.1	41.7
75°	38.4	38.4	37.6	37.6	36.8	36.0	36.0	35.2	34.4	32.8	30.4
77.5°	28.0	28.0	28.0	27.2	26.4	25.6	25.6	24.8	24.0	23.2	21.6
80°	19.2	19.2	19.2	19.2	18.4	17.6	17.6	16.8	16.8	16.0	14.4
82.5°	12.8	12.8	12.8	12.8	12.0	12.0	12.0	11.2	10.4	10.4	8.8
85°	8.8	8.8	8.0	8.0	8.0	8.0	7.2	7.2	6.4	5.6	5.6
87.5°	4.8	4.8	4.8	4.8	4.0	4.0	4.0	4.0	3.2	3.2	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°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	570.3	570.3	569.5	567.1	567.9	567.1	567.9	567.1	564.7	567.1	564.7
5°	573.5	574.3	572.7	569.5	570.3	569.5	569.5	568.7	566.3	567.9	566.3
7.5°	576.7	575.9	575.1	571.9	572.7	571.9	571.9	570.3	567.9	569.5	567.1
10°	578.3	578.3	576.7	573.5	573.5	572.7	573.5	572.7	569.5	571.9	570.3
12.5°	578.3	577.5	577.5	573.5	574.3	573.5	574.3	572.7	570.3	571.9	571.1
15°	575.9	575.9	575.1	571.1	571.9	571.9	572.7	571.1	568.7	571.1	569.5
17.5°	571.1	571.1	570.3	567.1	568.7	568.7	569.5	567.9	565.5	567.1	567.1
20°	561.5	562.3	562.3	559.9	561.5	561.5	562.3	561.5	560.7	561.5	559.9
22.5°	550.3	551.9	551.9	549.5	551.1	551.1	553.5	552.7	551.1	551.9	551.1
25°	533.5	535.1	536.7	535.1	536.7	536.7	539.1	538.3	536.7	538.3	535.9
27.5°	514.2	515.0	516.6	515.0	517.4	516.6	519.0	518.2	515.8	518.2	517.4
30°	487.0	490.2	492.6	490.2	492.6	492.6	494.2	493.4	492.6	491.8	491.8
32.5°	456.6	459.8	459.8	459.0	460.6	460.6	461.4	459.8	459.0	459.8	460.6
35°	418.9	420.5	422.1	421.3	422.1	422.9	422.1	422.9	420.5	421.3	421.3
37.5°	378.1	379.7	379.7	377.3	378.9	378.9	377.3	377.3	375.7	377.3	374.1
40°	334.8	333.2	334.0	332.4	330.8	330.8	330.0	326.8	325.2	326.0	326.8
42.5°	292.4	292.4	290.0	286.0	281.9	281.9	279.5	277.9	274.7	276.3	275.5
45°	256.3	252.3	249.1	242.7	240.3	238.7	234.7	230.7	229.1	229.9	229.1
47.5°	221.9	218.7	210.7	201.8	199.4	197.0	192.2	187.4	185.8	184.2	184.2
50°	193.0	187.4	178.6	169.0	165.0	161.0	154.6	149.8	146.6	147.4	147.4
52.5°	166.6	160.2	149.8	137.8	133.0	128.2	122.6	116.9	114.5	113.7	113.7
55°	143.4	136.2	125.8	112.1	108.1	102.5	95.3	88.9	85.7	84.9	86.5
57.5°	122.6	116.1	104.1	90.5	85.7	80.1	72.9	67.3	63.3	62.5	63.3
60°	105.7	96.9	86.5	73.7	67.3	62.5	54.5	49.7	45.7	44.1	44.9
62.5°	88.9	80.9	70.5	57.7	52.9	48.1	40.9	35.2	32.0	31.2	32.0
65°	76.1	68.1	58.5	47.3	42.5	37.6	31.2	25.6	23.2	22.4	23.2
67.5°	63.3	56.1	48.1	37.6	33.6	29.6	23.2	19.2	16.0	15.2	16.0
70°	51.3	44.9	36.8	29.6	25.6	22.4	17.6	13.6	11.2	10.4	11.2
72.5°	38.4	33.6	28.0	21.6	19.2	16.8	12.8	9.6	8.0	7.2	8.0
75°	28.0	24.0	20.0	15.2	13.6	12.0	8.8	6.4	5.6	4.8	5.6
77.5°	19.2	16.8	13.6	10.4	8.8	8.0	5.6	4.8	4.0	3.2	3.2
80°	12.8	11.2	8.8	7.2	6.4	5.6	4.0	3.2	2.4	2.4	2.4
82.5°	8.0	6.4	5.6	4.0	3.2	3.2	2.4	1.6	1.6	1.6	1.6
85°	4.8	4.0	3.2	2.4	1.6	1.6	0.8	0.8	0.8	0.8	0.8
87.5°	2.4	1.6	1.6	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.8
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°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	566.3	564.7	564.7	565.5	566.3	567.1	565.5	564.7	564.7	567.1	565.5
5°	566.3	565.5	565.5	565.5	567.1	567.9	566.3	565.5	566.3	568.7	567.9
7.5°	568.7	567.1	567.9	567.9	568.7	570.3	568.7	567.9	568.7	571.1	569.5
10°	570.3	568.7	569.5	568.7	571.1	571.9	570.3	569.5	570.3	573.5	572.7
12.5°	571.1	570.3	570.3	569.5	571.9	572.7	571.1	570.3	571.1	573.5	572.7
15°	569.5	568.7	568.7	568.7	570.3	571.9	569.5	568.7	568.7	571.1	570.3
17.5°	566.3	564.7	564.7	564.7	565.5	566.3	563.9	563.1	562.3	564.7	563.9
20°	560.7	559.1	557.5	557.5	558.3	558.3	556.7	554.3	554.3	555.1	553.5
22.5°	550.3	549.5	547.9	547.1	548.7	547.9	544.7	542.3	541.5	542.3	540.7
25°	535.9	534.3	533.5	532.7	533.5	532.7	529.5	526.2	526.2	526.2	523.8
27.5°	515.8	514.2	513.4	513.4	514.2	512.6	509.4	506.2	504.6	504.6	502.2
30°	490.2	490.2	489.4	488.6	487.8	487.8	483.0	479.8	478.2	479.0	477.4
32.5°	459.0	458.2	457.4	455.0	455.8	455.0	451.0	448.6	446.1	444.5	443.7
35°	418.9	418.9	418.1	418.1	418.1	417.3	413.3	410.9	409.3	408.5	406.1
37.5°	374.9	374.1	373.3	373.3	373.3	373.3	370.9	368.5	368.5	367.7	366.0
40°	325.2	326.0	326.8	326.0	328.4	330.8	327.6	326.0	325.2	327.6	324.4
42.5°	277.1	276.3	280.3	281.1	281.1	285.2	286.0	286.8	286.0	287.6	287.6
45°	230.7	229.9	233.9	235.5	239.5	244.3	246.7	250.7	252.3	253.9	252.3
47.5°	186.6	189.8	193.0	197.0	200.2	208.3	213.1	217.1	218.7	221.1	221.1
50°	149.8	153.0	158.6	161.8	165.8	175.4	183.4	189.0	192.2	194.6	193.8
52.5°	115.3	120.9	128.2	131.4	137.0	148.2	157.0	163.4	167.4	169.8	170.6
55°	88.9	93.7	100.9	105.7	111.3	123.4	134.6	141.8	145.8	149.0	150.6
57.5°	65.7	71.3	79.3	83.3	89.7	103.3	112.9	121.7	126.6	130.6	131.4
60°	48.1	53.7	60.9	65.7	72.1	85.7	96.9	104.9	110.5	113.7	115.3
62.5°	34.4	40.0	47.3	52.1	57.7	69.7	80.9	88.9	94.5	98.5	100.9
65°	24.8	30.4	37.6	41.7	46.5	57.7	68.1	76.1	81.7	86.5	88.1
67.5°	18.4	22.4	28.8	32.8	37.6	46.5	55.3	62.5	68.1	72.1	73.7
70°	13.6	16.8	22.4	24.8	28.0	36.0	43.3	49.7	54.5	57.7	59.3
72.5°	9.6	12.0	16.0	18.4	20.8	27.2	32.8	37.6	40.9	44.1	45.7
75°	6.4	8.0	11.2	12.8	14.4	19.2	23.2	27.2	29.6	32.0	32.8
77.5°	4.0	5.6	8.0	8.8	10.4	12.8	16.0	18.4	20.0	21.6	23.2
80°	2.4	3.2	4.8	5.6	6.4	8.8	10.4	12.0	13.6	15.2	16.0
82.5°	1.6	2.4	3.2	3.2	4.0	4.8	6.4	8.0	8.8	9.6	10.4
85°	0.8	0.8	1.6	1.6	2.4	2.4	3.2	4.0	4.8	5.6	6.4
87.5°	0.8	0.8	0.8	0.8	1.6	1.6	2.4	2.4	2.4	3.2	3.2
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	566.3	566.3	566.3	566.3	566.3	566.3	566.3	566.3
2.5°	563.9	566.3	563.9	565.5	564.7	564.7	563.9	564.7
5°	566.3	569.5	566.3	568.7	567.1	567.1	567.1	567.9
7.5°	568.7	571.9	569.5	571.9	571.1	570.3	570.3	571.9
10°	571.1	573.5	571.9	574.3	573.5	572.7	572.7	574.3
12.5°	571.1	574.3	572.7	575.1	574.3	573.5	573.5	574.3
15°	568.7	572.7	570.3	572.7	571.9	571.1	571.1	572.7
17.5°	561.5	564.7	563.1	564.7	564.7	563.9	564.7	565.5
20°	551.9	554.3	552.7	554.3	554.3	552.7	553.5	554.3
22.5°	538.3	540.7	539.1	540.7	539.9	539.1	539.1	538.3
25°	521.4	524.6	522.2	523.8	522.2	520.6	520.6	521.4
27.5°	500.6	503.0	499.8	501.4	499.8	498.2	498.2	497.4
30°	473.4	474.2	471.8	473.4	471.8	471.0	469.4	469.4
32.5°	440.5	441.3	438.9	438.9	437.3	437.3	434.1	436.5
35°	402.1	402.9	402.1	401.3	398.9	398.1	397.3	397.3
37.5°	362.0	362.0	359.6	358.8	357.2	355.6	356.4	354.0
40°	321.2	320.4	318.0	318.8	318.0	315.6	314.8	314.0
42.5°	282.7	282.7	280.3	281.1	279.5	278.7	276.3	277.1
45°	249.1	249.1	246.7	246.7	245.9	243.5	244.3	242.7
47.5°	218.7	218.7	217.9	217.9	215.5	214.7	214.7	214.7
50°	192.2	192.2	192.2	192.2	191.4	190.6	189.8	190.6
52.5°	169.8	171.4	170.6	170.6	169.8	169.0	168.2	168.2
55°	149.8	150.6	150.6	151.4	150.6	149.8	150.6	149.8
57.5°	132.2	133.8	133.8	133.8	133.8	133.8	133.0	132.2
60°	116.9	117.7	117.7	118.5	118.5	118.5	117.7	117.7
62.5°	101.7	103.3	104.1	104.1	104.9	104.1	104.1	104.1
65°	89.7	91.3	92.1	91.3	92.1	92.1	91.3	91.3
67.5°	75.3	76.9	76.9	76.9	76.9	77.7	76.9	76.9
70°	60.9	62.5	61.7	62.5	62.5	62.5	62.5	62.5
72.5°	46.5	47.3	48.1	48.1	48.9	48.1	48.1	48.1
75°	33.6	35.2	35.2	35.2	35.2	36.0	36.0	36.0
77.5°	24.0	24.8	24.8	25.6	25.6	25.6	25.6	26.4
80°	16.8	16.8	17.6	17.6	18.4	18.4	18.4	18.4
82.5°	11.2	12.0	12.0	12.0	12.0	12.0	12.0	12.0
85°	6.4	7.2	7.2	7.2	7.2	8.0	8.0	8.0
87.5°	4.0	4.0	4.0	4.0	4.0	4.0	3.2	3.2
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)