

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: P274458

Luminaire Tested: **LD6B10DE010W2N2765 EU6B1020W2N902765 6LBDW0H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274458
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: LD6B10DE010W2N2765 EU6B1020W2N902765 6LBDW0H
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, DOUBLE WALLWASH WITH HAZE FINISH
Light Source: W2N 2700K-6500K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 872.0 lumens
Efficiency: N/A
Efficacy: 62.3 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

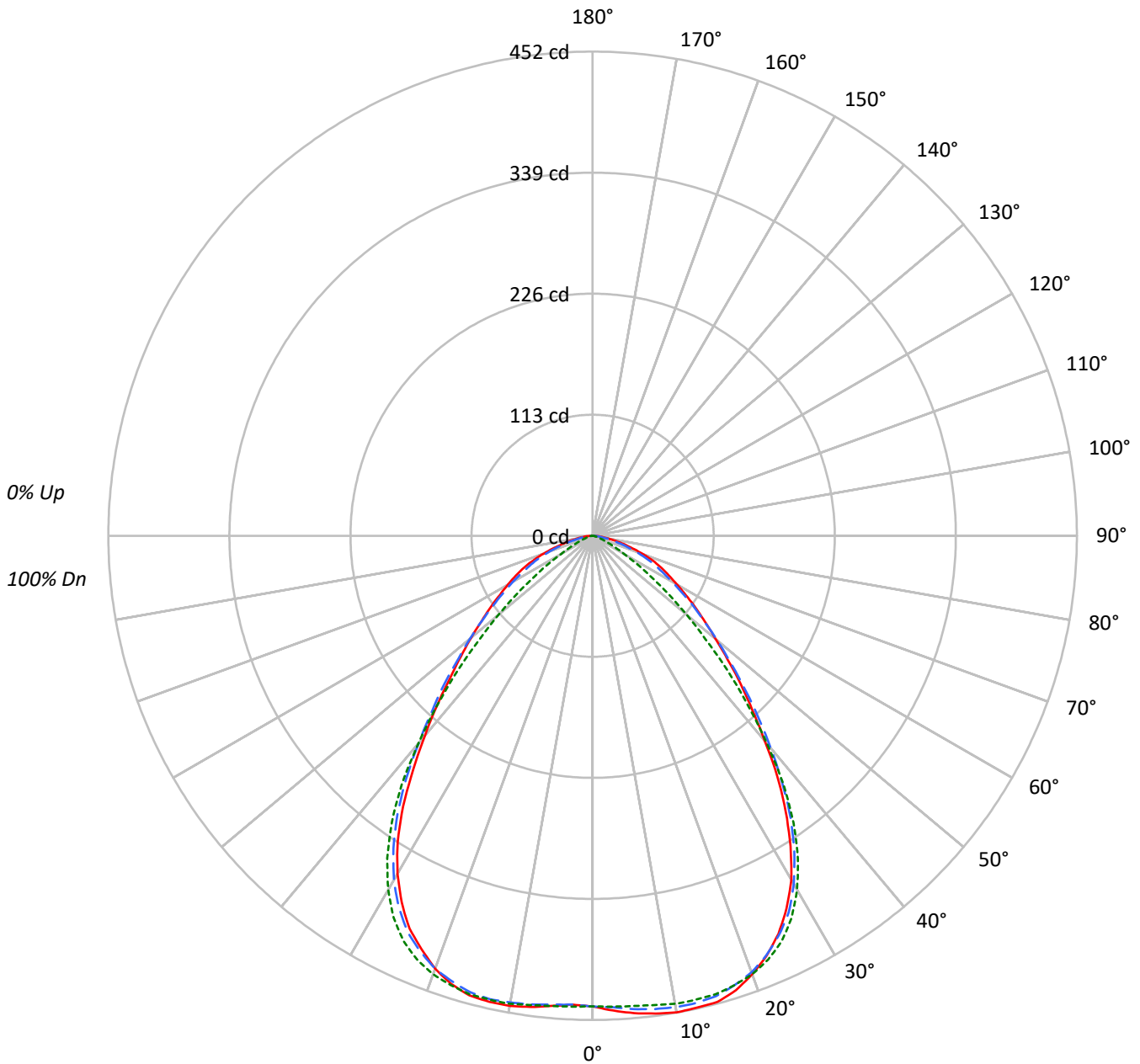
Input Watts (W): 14
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	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°	28660	28660	28660
5°	29300	28855	28855
10°	29930	29394	29520
15°	30428	29928	30009
20°	30243	30243	29854
25°	29521	30061	29118
30°	27949	28747	27436
35°	25040	26036	24546
40°	21274	21538	20746
45°	18001	16451	17373
50°	15204	11601	15011
55°	13353	7496	13217
60°	11835	4462	11913
65°	10930	2686	10930
70°	9480	1545	9251
75°	7512	933	7058
80°	5598	714	5373
85°	5090	449	4641



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.3	4.9
10°-20°	125.2	14.4
20°-30°	188.3	21.6
30°-40°	198.0	22.7
40°-50°	147.9	17.0
50°-60°	92.1	10.6
60°-70°	52.4	6.0
70°-80°	21.6	2.5
80°-90°	4.4	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°	355.8	40.8
0°-40°	553.7	63.5
0°-60°	793.6	91.0
0°-90°	872.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	872.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	439	439	439	439	439	
5°	447	444	441	439	441	43
15°	450	445	443	441	444	127
25°	410	411	418	408	404	188
35°	314	322	327	318	308	195
45°	195	200	178	196	188	151
55°	117	115	66	113	116	106
65°	71	63	17	63	71	70
75°	30	24	4	23	28	32
85°	7	4	1	4	6	8
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°	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3
2.5°	443.7	443.1	443.7	442.4	441.8	441.8	442.4	441.2	440.6	441.2	440.6
5°	447.4	446.2	446.8	446.2	444.9	444.9	445.6	443.7	443.7	444.3	443.7
7.5°	449.9	449.9	449.9	448.7	448.0	447.4	448.7	446.8	446.2	446.2	445.6
10°	451.8	451.1	451.8	450.5	449.3	448.7	449.9	448.7	447.4	448.7	446.8
12.5°	451.1	451.1	451.1	450.5	449.3	448.7	449.9	448.0	447.4	448.0	446.8
15°	450.5	448.7	449.3	448.7	446.8	446.8	447.4	445.6	444.3	446.2	444.9
17.5°	444.9	443.7	444.3	443.1	441.8	441.2	441.8	441.2	440.0	441.2	440.0
20°	435.6	435.6	436.2	435.0	433.7	433.1	434.4	433.1	431.9	433.7	433.7
22.5°	424.4	424.4	424.4	423.8	423.2	423.2	423.2	422.6	421.9	423.2	423.8
25°	410.1	409.5	410.1	410.8	410.1	409.5	410.1	410.1	408.9	411.4	411.4
27.5°	392.1	392.1	393.4	392.7	392.7	392.1	393.4	393.4	392.7	394.6	396.5
30°	371.0	369.7	371.0	371.0	371.6	371.6	372.2	372.2	372.2	374.1	375.3
32.5°	343.6	344.3	346.1	345.5	344.9	346.8	346.8	348.0	348.6	349.9	350.5
35°	314.4	315.1	315.1	315.7	316.9	315.7	318.8	318.2	318.8	321.3	322.5
37.5°	283.4	281.5	284.6	283.4	284.0	284.0	285.2	285.9	287.7	290.8	290.8
40°	249.8	250.4	251.7	252.3	252.9	252.9	252.9	254.8	255.4	259.1	258.5
42.5°	220.6	220.6	221.8	222.5	222.5	222.5	222.5	224.3	225.6	226.8	228.1
45°	195.1	193.3	194.5	194.5	195.7	195.1	196.4	197.6	198.2	200.1	199.5
47.5°	170.9	170.3	170.9	171.5	170.9	171.5	172.1	172.8	173.4	173.4	173.4
50°	149.8	149.8	150.4	151.0	151.0	151.0	151.0	151.6	151.6	152.9	151.6
52.5°	132.4	133.0	133.0	132.4	133.0	133.0	133.6	133.6	133.0	133.0	131.1
55°	117.4	116.8	117.4	116.8	117.4	117.4	116.8	116.8	116.2	115.6	115.0
57.5°	103.2	103.2	103.2	103.2	102.5	103.2	102.5	101.9	101.9	100.7	98.8
60°	90.7	90.7	90.7	90.7	90.7	90.1	90.7	90.1	88.9	87.6	85.1
62.5°	80.2	79.5	80.2	79.5	79.5	78.9	78.9	78.3	77.1	75.8	73.3
65°	70.8	71.5	70.8	70.8	70.2	69.6	69.6	69.0	67.1	65.9	63.4
67.5°	60.9	60.3	60.3	60.3	59.7	59.7	59.7	58.4	57.2	55.3	52.8
70°	49.7	49.7	49.7	49.1	49.1	48.5	48.5	47.8	46.6	45.4	42.3
72.5°	39.1	39.1	39.1	37.9	38.5	37.9	37.9	36.7	36.0	34.2	32.3
75°	29.8	29.8	29.2	29.2	28.6	28.0	28.0	27.3	26.7	25.5	23.6
77.5°	21.7	21.7	21.7	21.1	20.5	19.9	19.9	19.3	18.6	18.0	16.8
80°	14.9	14.9	14.9	14.9	14.3	13.7	13.7	13.0	13.0	12.4	11.2
82.5°	9.9	9.9	9.9	9.9	9.3	9.3	9.3	8.7	8.1	8.1	6.8
85°	6.8	6.8	6.2	6.2	6.2	6.2	5.6	5.6	5.0	4.3	4.3
87.5°	3.7	3.7	3.7	3.7	3.1	3.1	3.1	3.1	2.5	2.5	1.9
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°	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3
2.5°	442.4	442.4	441.8	440.0	440.6	440.0	440.6	440.0	438.1	440.0	438.1
5°	444.9	445.6	444.3	441.8	442.4	441.8	441.8	441.2	439.3	440.6	439.3
7.5°	447.4	446.8	446.2	443.7	444.3	443.7	443.7	442.4	440.6	441.8	440.0
10°	448.7	448.7	447.4	444.9	444.9	444.3	444.9	444.3	441.8	443.7	442.4
12.5°	448.7	448.0	448.0	444.9	445.6	444.9	445.6	444.3	442.4	443.7	443.1
15°	446.8	446.8	446.2	443.1	443.7	443.7	444.3	443.1	441.2	443.1	441.8
17.5°	443.1	443.1	442.4	440.0	441.2	441.2	441.8	440.6	438.7	440.0	440.0
20°	435.6	436.2	436.2	434.4	435.6	435.6	436.2	435.6	435.0	435.6	434.4
22.5°	426.9	428.2	428.2	426.3	427.5	427.5	429.4	428.8	427.5	428.2	427.5
25°	413.9	415.1	416.3	415.1	416.3	416.3	418.2	417.6	416.3	417.6	415.7
27.5°	399.0	399.6	400.8	399.6	401.4	400.8	402.7	402.1	400.2	402.1	401.4
30°	377.8	380.3	382.2	380.3	382.2	382.2	383.4	382.8	382.2	381.6	381.6
32.5°	354.2	356.7	356.7	356.1	357.3	357.3	357.9	356.7	356.1	356.7	357.3
35°	325.0	326.2	327.5	326.9	327.5	328.1	327.5	328.1	326.2	326.9	326.9
37.5°	293.3	294.6	294.6	292.7	293.9	293.9	292.7	292.7	291.4	292.7	290.2
40°	259.8	258.5	259.1	257.9	256.6	256.6	256.0	253.5	252.3	252.9	253.5
42.5°	226.8	226.8	225.0	221.8	218.7	218.7	216.9	215.6	213.1	214.4	213.8
45°	198.9	195.7	193.3	188.3	186.4	185.2	182.1	179.0	177.7	178.3	177.7
47.5°	172.1	169.6	163.4	156.6	154.7	152.9	149.1	145.4	144.2	142.9	142.9
50°	149.8	145.4	138.6	131.1	128.0	124.9	119.9	116.2	113.7	114.3	114.3
52.5°	129.3	124.3	116.2	106.9	103.2	99.4	95.1	90.7	88.9	88.2	88.2
55°	111.2	105.6	97.6	87.0	83.9	79.5	73.9	69.0	66.5	65.9	67.1
57.5°	95.1	90.1	80.8	70.2	66.5	62.1	56.5	52.2	49.1	48.5	49.1
60°	82.0	75.2	67.1	57.2	52.2	48.5	42.3	38.5	35.4	34.2	34.8
62.5°	69.0	62.8	54.7	44.7	41.0	37.3	31.7	27.3	24.9	24.2	24.9
65°	59.0	52.8	45.4	36.7	32.9	29.2	24.2	19.9	18.0	17.4	18.0
67.5°	49.1	43.5	37.3	29.2	26.1	23.0	18.0	14.9	12.4	11.8	12.4
70°	39.8	34.8	28.6	23.0	19.9	17.4	13.7	10.6	8.7	8.1	8.7
72.5°	29.8	26.1	21.7	16.8	14.9	13.0	9.9	7.5	6.2	5.6	6.2
75°	21.7	18.6	15.5	11.8	10.6	9.3	6.8	5.0	4.3	3.7	4.3
77.5°	14.9	13.0	10.6	8.1	6.8	6.2	4.3	3.7	3.1	2.5	2.5
80°	9.9	8.7	6.8	5.6	5.0	4.3	3.1	2.5	1.9	1.9	1.9
82.5°	6.2	5.0	4.3	3.1	2.5	2.5	1.9	1.2	1.2	1.2	1.2
85°	3.7	3.1	2.5	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6
87.5°	1.9	1.2	1.2	0.6	0.6	0.6	0.6	0.6	0.0	0.0	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°	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3
2.5°	439.3	438.1	438.1	438.7	439.3	440.0	438.7	438.1	438.1	440.0	438.7
5°	439.3	438.7	438.7	438.7	440.0	440.6	439.3	438.7	439.3	441.2	440.6
7.5°	441.2	440.0	440.6	440.6	441.2	442.4	441.2	440.6	441.2	443.1	441.8
10°	442.4	441.2	441.8	441.2	443.1	443.7	442.4	441.8	442.4	444.9	444.3
12.5°	443.1	442.4	442.4	441.8	443.7	444.3	443.1	442.4	443.1	444.9	444.3
15°	441.8	441.2	441.2	441.2	442.4	443.7	441.8	441.2	441.2	443.1	442.4
17.5°	439.3	438.1	438.1	438.1	438.7	439.3	437.5	436.9	436.2	438.1	437.5
20°	435.0	433.7	432.5	432.5	433.1	433.1	431.9	430.0	430.0	430.6	429.4
22.5°	426.9	426.3	425.0	424.4	425.7	425.0	422.6	420.7	420.1	420.7	419.5
25°	415.7	414.5	413.9	413.2	413.9	413.2	410.8	408.3	408.3	408.3	406.4
27.5°	400.2	399.0	398.3	398.3	399.0	397.7	395.2	392.7	391.5	391.5	389.6
30°	380.3	380.3	379.7	379.1	378.4	378.4	374.7	372.2	371.0	371.6	370.4
32.5°	356.1	355.5	354.8	353.0	353.6	353.0	349.9	348.0	346.1	344.9	344.3
35°	325.0	325.0	324.4	324.4	324.4	323.8	320.7	318.8	317.5	316.9	315.1
37.5°	290.8	290.2	289.6	289.6	289.6	289.6	287.7	285.9	285.9	285.2	284.0
40°	252.3	252.9	253.5	252.9	254.8	256.6	254.2	252.9	252.3	254.2	251.7
42.5°	215.0	214.4	217.5	218.1	218.1	221.2	221.8	222.5	221.8	223.1	223.1
45°	179.0	178.3	181.5	182.7	185.8	189.5	191.4	194.5	195.7	197.0	195.7
47.5°	144.8	147.3	149.8	152.9	155.4	161.6	165.3	168.4	169.6	171.5	171.5
50°	116.2	118.7	123.0	125.5	128.6	136.1	142.3	146.7	149.1	151.0	150.4
52.5°	89.5	93.8	99.4	101.9	106.3	115.0	121.8	126.8	129.9	131.7	132.4
55°	69.0	72.7	78.3	82.0	86.4	95.7	104.4	110.0	113.1	115.6	116.8
57.5°	51.0	55.3	61.5	64.6	69.6	80.2	87.6	94.5	98.2	101.3	101.9
60°	37.3	41.6	47.2	51.0	55.9	66.5	75.2	81.4	85.8	88.2	89.5
62.5°	26.7	31.1	36.7	40.4	44.7	54.1	62.8	69.0	73.3	76.4	78.3
65°	19.3	23.6	29.2	32.3	36.0	44.7	52.8	59.0	63.4	67.1	68.4
67.5°	14.3	17.4	22.4	25.5	29.2	36.0	42.9	48.5	52.8	55.9	57.2
70°	10.6	13.0	17.4	19.3	21.7	28.0	33.6	38.5	42.3	44.7	46.0
72.5°	7.5	9.3	12.4	14.3	16.2	21.1	25.5	29.2	31.7	34.2	35.4
75°	5.0	6.2	8.7	9.9	11.2	14.9	18.0	21.1	23.0	24.9	25.5
77.5°	3.1	4.3	6.2	6.8	8.1	9.9	12.4	14.3	15.5	16.8	18.0
80°	1.9	2.5	3.7	4.3	5.0	6.8	8.1	9.3	10.6	11.8	12.4
82.5°	1.2	1.9	2.5	2.5	3.1	3.7	5.0	6.2	6.8	7.5	8.1
85°	0.6	0.6	1.2	1.2	1.9	1.9	2.5	3.1	3.7	4.3	5.0
87.5°	0.6	0.6	0.6	0.6	1.2	1.2	1.9	1.9	1.9	2.5	2.5
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°	439.3	439.3	439.3	439.3	439.3	439.3	439.3	439.3
2.5°	437.5	439.3	437.5	438.7	438.1	438.1	437.5	438.1
5°	439.3	441.8	439.3	441.2	440.0	440.0	440.0	440.6
7.5°	441.2	443.7	441.8	443.7	443.1	442.4	442.4	443.7
10°	443.1	444.9	443.7	445.6	444.9	444.3	444.3	445.6
12.5°	443.1	445.6	444.3	446.2	445.6	444.9	444.9	445.6
15°	441.2	444.3	442.4	444.3	443.7	443.1	443.1	444.3
17.5°	435.6	438.1	436.9	438.1	438.1	437.5	438.1	438.7
20°	428.2	430.0	428.8	430.0	430.0	428.8	429.4	430.0
22.5°	417.6	419.5	418.2	419.5	418.8	418.2	418.2	417.6
25°	404.5	407.0	405.2	406.4	405.2	403.9	403.9	404.5
27.5°	388.4	390.3	387.8	389.0	387.8	386.5	386.5	385.9
30°	367.3	367.9	366.0	367.3	366.0	365.4	364.2	364.2
32.5°	341.8	342.4	340.5	340.5	339.3	339.3	336.8	338.7
35°	312.0	312.6	312.0	311.3	309.5	308.8	308.2	308.2
37.5°	280.9	280.9	279.0	278.4	277.2	275.9	276.5	274.7
40°	249.2	248.6	246.7	247.3	246.7	244.8	244.2	243.6
42.5°	219.4	219.4	217.5	218.1	216.9	216.3	214.4	215.0
45°	193.3	193.3	191.4	191.4	190.8	188.9	189.5	188.3
47.5°	169.6	169.6	169.0	169.0	167.2	166.5	166.5	166.5
50°	149.1	149.1	149.1	149.1	148.5	147.9	147.3	147.9
52.5°	131.7	133.0	132.4	132.4	131.7	131.1	130.5	130.5
55°	116.2	116.8	116.8	117.4	116.8	116.2	116.8	116.2
57.5°	102.5	103.8	103.8	103.8	103.8	103.8	103.2	102.5
60°	90.7	91.3	91.3	92.0	92.0	92.0	91.3	91.3
62.5°	78.9	80.2	80.8	80.8	81.4	80.8	80.8	80.8
65°	69.6	70.8	71.5	70.8	71.5	71.5	70.8	70.8
67.5°	58.4	59.7	59.7	59.7	59.7	60.3	59.7	59.7
70°	47.2	48.5	47.8	48.5	48.5	48.5	48.5	48.5
72.5°	36.0	36.7	37.3	37.3	37.9	37.3	37.3	37.3
75°	26.1	27.3	27.3	27.3	27.3	28.0	28.0	28.0
77.5°	18.6	19.3	19.3	19.9	19.9	19.9	19.9	20.5
80°	13.0	13.0	13.7	13.7	14.3	14.3	14.3	14.3
82.5°	8.7	9.3	9.3	9.3	9.3	9.3	9.3	9.3
85°	5.0	5.6	5.6	5.6	5.6	6.2	6.2	6.2
87.5°	3.1	3.1	3.1	3.1	3.1	3.1	2.5	2.5
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)