

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: P252448

Luminaire Tested: **LD6B10D010 EU6B10209035 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252448
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209035 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 782.0 lumens
Efficiency: N/A
Efficacy: 77.8 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

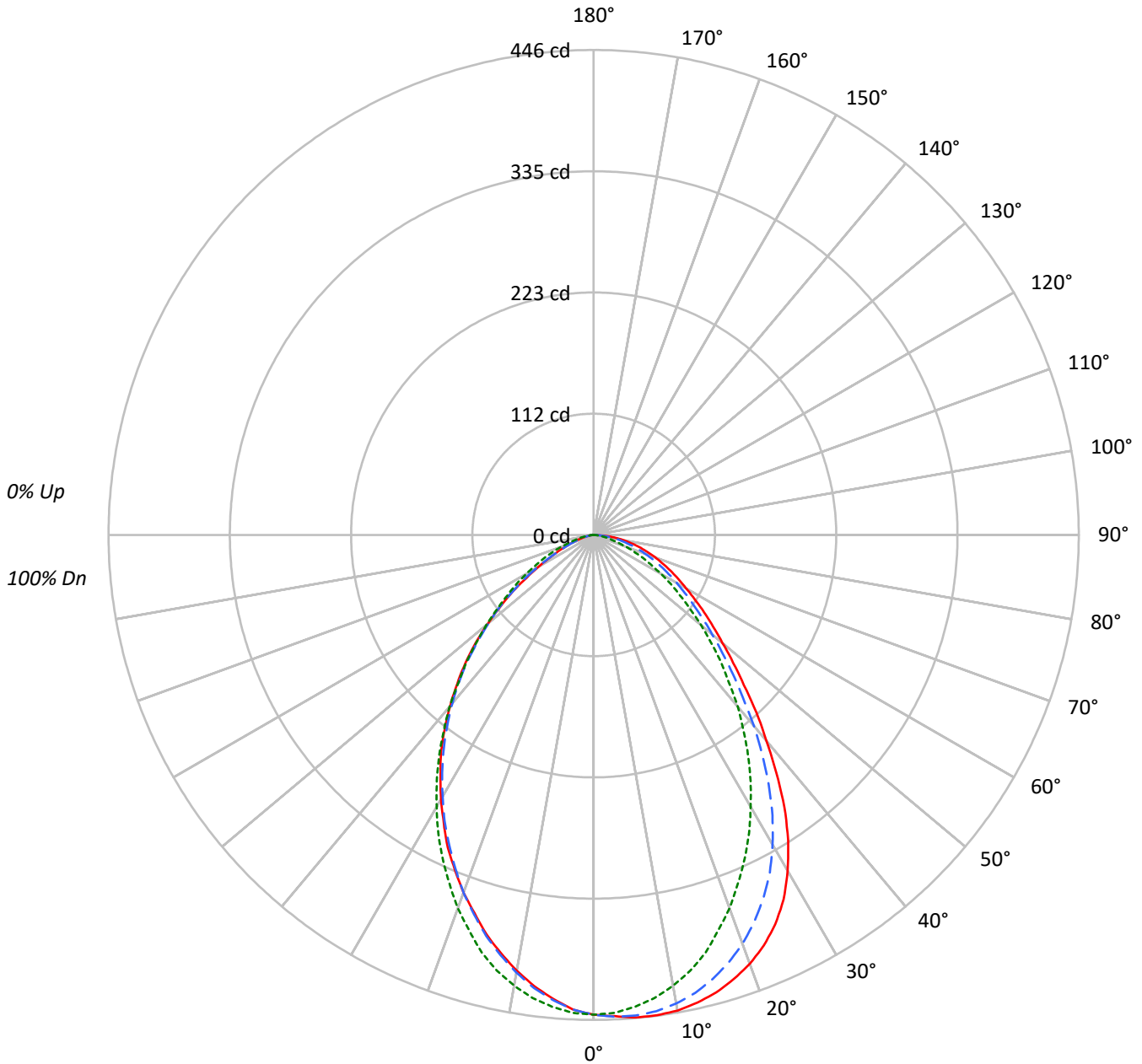
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	28784	28784	28784
5°	29176	28527	28049
10°	29427	27883	26956
15°	29421	26861	25700
20°	29139	25355	24293
25°	28448	23640	22848
30°	26864	21741	21139
35°	24355	19712	19473
40°	21027	17536	17484
45°	18038	15260	15380
50°	15671	13063	12870
55°	14081	11010	10317
60°	12787	9277	7594
65°	12010	7657	5588
70°	11445	5951	4082
75°	10965	4336	2773
80°	10369	3006	1841
85°	9207	1871	898



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	41.3	5.3
10°-20°	113.0	14.5
20°-30°	156.9	20.1
30°-40°	162.5	20.8
40°-50°	133.6	17.1
50°-60°	91.8	11.7
60°-70°	52.8	6.7
70°-80°	24.3	3.1
80°-90°	5.9	0.8
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°	311.2	39.8
0°-40°	473.7	60.6
0°-60°	699.1	89.4
0°-90°	782.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	782.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	441	441	441	441	441	
5°	446	444	436	430	428	42
15°	436	423	398	382	380	123
25°	395	369	328	314	317	181
35°	306	281	248	240	244	190
45°	196	181	165	164	167	152
55°	124	112	97	91	91	111
65°	78	68	50	35	36	77
75°	44	34	17	11	11	46
85°	12	9	2	1	1	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°	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2
2.5°	443.0	446.7	444.2	443.6	444.8	444.8	444.8	443.0	444.2	442.4	443.6
5°	445.5	448.5	446.1	444.8	446.1	446.7	444.8	443.6	445.5	443.0	443.6
7.5°	445.5	448.5	446.1	445.5	446.1	446.1	445.5	443.0	444.2	441.8	441.8
10°	444.2	446.7	444.2	443.0	443.6	443.0	443.0	439.9	440.6	437.5	437.5
12.5°	440.6	443.6	440.6	439.3	439.3	439.3	437.5	435.0	435.6	432.0	431.4
15°	435.6	438.1	435.0	433.8	433.8	433.2	432.0	428.3	428.3	424.6	422.8
17.5°	428.3	430.7	428.3	426.5	425.8	424.6	423.4	419.7	418.5	414.2	412.4
20°	419.7	421.6	419.1	417.3	416.0	414.8	412.4	408.7	407.5	403.2	400.1
22.5°	408.7	411.1	407.5	405.6	404.4	402.6	400.1	396.4	394.6	389.1	385.4
25°	395.2	396.4	393.4	391.5	389.1	387.9	386.0	381.1	379.3	373.2	368.9
27.5°	378.1	379.3	375.6	374.4	371.3	370.1	367.6	363.3	360.9	354.8	350.5
30°	356.6	357.8	355.4	353.5	351.1	348.6	346.8	342.5	338.8	332.7	329.0
32.5°	332.7	334.5	332.1	329.6	325.4	326.0	322.9	318.6	315.6	310.0	305.8
35°	305.8	307.0	303.9	303.3	300.8	298.4	295.3	292.3	290.4	284.3	280.6
37.5°	275.7	278.8	275.7	273.3	272.1	270.2	268.4	264.1	262.9	259.2	254.3
40°	246.9	248.8	246.9	244.5	242.6	242.6	240.2	237.7	234.7	231.0	229.2
42.5°	221.2	220.0	219.4	218.1	215.7	215.1	214.5	211.4	209.6	205.9	202.8
45°	195.5	196.1	194.8	194.2	192.4	191.2	189.9	187.5	186.9	183.2	180.8
47.5°	174.0	173.4	172.2	172.2	171.0	169.7	168.5	166.7	166.0	163.0	160.5
50°	154.4	155.0	154.4	153.8	152.0	151.3	150.1	148.9	147.7	144.6	142.2
52.5°	138.5	137.9	137.3	137.3	135.4	134.8	133.6	132.3	131.1	128.1	126.2
55°	123.8	123.8	123.2	122.5	120.7	120.1	119.5	118.3	116.4	114.0	112.1
57.5°	110.3	110.3	109.7	109.1	107.8	107.8	106.6	105.4	104.2	101.7	99.3
60°	98.0	98.6	98.0	97.4	96.2	96.2	95.6	93.7	93.1	90.1	88.2
62.5°	87.6	87.6	87.6	87.0	86.4	85.2	85.2	83.3	82.1	80.3	77.8
65°	77.8	77.8	77.8	77.2	76.0	75.4	74.8	73.5	72.3	70.5	68.0
67.5°	68.6	68.6	68.6	68.0	66.8	66.2	65.6	64.9	63.1	61.3	58.8
70°	60.0	60.0	59.4	58.8	58.2	57.6	57.0	55.8	54.5	52.1	50.2
72.5°	51.5	51.5	51.5	50.2	49.6	49.6	48.4	47.8	46.6	44.1	42.3
75°	43.5	42.9	42.9	42.3	41.7	41.1	40.4	39.8	38.0	36.8	34.3
77.5°	35.5	35.5	34.9	34.3	34.3	33.7	33.1	31.9	31.2	29.4	27.6
80°	27.6	27.6	27.6	27.6	27.0	26.3	26.3	25.1	24.5	22.7	21.4
82.5°	20.8	20.2	20.2	20.2	19.6	19.0	19.0	18.4	17.8	16.5	15.3
85°	12.3	11.6	11.6	11.6	11.0	11.0	10.4	10.4	9.8	8.6	8.6
87.5°	3.7	3.7	4.3	4.3	3.7	3.7	3.7	3.7	3.7	3.1	3.1
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°	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2
2.5°	442.4	444.2	441.8	441.2	443.6	442.4	441.8	440.6	441.2	439.9	438.1
5°	441.8	444.2	441.2	439.3	442.4	440.6	439.3	438.1	438.1	435.6	434.4
7.5°	439.9	441.2	438.1	436.3	438.1	436.3	435.0	433.2	432.6	429.5	427.7
10°	435.0	436.3	432.6	430.1	432.0	429.5	427.7	425.8	424.6	420.9	418.5
12.5°	428.3	428.9	424.6	421.6	422.8	420.9	417.9	415.4	414.2	410.5	407.5
15°	419.1	419.7	414.8	410.5	411.8	409.3	405.6	403.2	401.3	397.7	393.4
17.5°	408.1	407.5	401.9	397.7	398.3	395.2	391.5	387.9	385.4	381.1	378.1
20°	395.8	394.0	387.9	383.0	383.6	379.9	375.6	371.9	368.9	365.2	360.9
22.5°	380.5	378.1	372.5	366.4	367.0	364.0	357.8	354.8	351.7	346.8	343.1
25°	364.0	360.3	354.8	348.6	348.6	345.0	340.1	336.4	333.3	328.4	324.1
27.5°	344.4	342.5	335.2	330.3	329.6	326.0	321.7	317.4	313.7	309.4	305.1
30°	322.9	319.8	314.3	308.8	307.6	304.5	300.2	295.3	292.9	288.6	284.9
32.5°	300.2	297.2	291.0	285.5	284.9	282.5	278.8	273.9	271.4	268.4	265.9
35°	274.5	273.3	267.1	262.9	262.9	260.4	256.7	252.4	250.6	247.5	244.5
37.5°	250.0	248.2	242.6	239.0	239.0	235.9	232.2	230.4	228.5	226.1	224.3
40°	224.3	223.0	218.7	215.1	215.7	213.2	210.8	208.3	207.1	205.9	204.0
42.5°	200.4	199.1	196.1	193.0	193.0	191.2	188.7	186.9	185.7	183.8	183.2
45°	178.9	177.1	174.6	171.6	171.6	169.7	168.5	167.3	166.7	165.4	163.6
47.5°	158.1	156.9	154.4	151.3	151.3	151.3	148.9	147.1	147.1	145.8	145.2
50°	140.3	138.5	136.6	134.2	134.2	133.0	131.1	129.3	129.3	128.7	127.4
52.5°	123.8	122.5	120.1	117.6	117.6	116.4	114.6	114.0	113.4	111.5	110.9
55°	109.7	108.5	106.6	103.6	102.9	102.3	100.5	99.3	98.6	96.8	96.8
57.5°	96.8	95.6	92.5	90.7	90.1	88.8	87.0	85.8	85.2	83.9	82.7
60°	85.8	83.9	81.5	79.0	78.4	77.2	75.4	74.1	73.5	71.1	69.9
62.5°	75.4	73.5	71.1	68.6	68.0	66.8	64.3	63.1	61.9	59.4	58.2
65°	65.6	63.7	61.3	58.8	57.6	57.0	54.5	52.7	51.5	49.6	47.2
67.5°	56.4	54.5	52.1	49.0	49.0	47.2	45.3	43.5	41.7	39.8	38.0
70°	47.8	46.0	43.5	41.1	40.4	39.2	37.4	34.9	33.7	31.2	29.4
72.5°	39.8	38.0	35.5	33.1	32.5	31.2	29.4	27.0	25.1	23.3	21.4
75°	32.5	30.6	28.2	26.3	25.7	24.5	22.7	20.2	18.4	17.2	15.3
77.5°	25.7	23.9	22.1	20.2	19.6	18.4	16.5	15.3	13.5	12.3	10.4
80°	19.6	18.4	16.5	15.3	14.7	13.5	12.3	10.4	9.2	8.0	7.4
82.5°	14.1	12.9	11.6	9.8	9.8	8.6	8.0	6.7	5.5	4.9	4.3
85°	8.0	6.7	6.1	5.5	4.9	4.9	4.3	3.7	3.1	2.5	2.5
87.5°	2.5	2.5	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2
2.5°	438.1	438.7	437.5	438.7	437.5	438.1	436.9	438.1	436.9	438.1	435.6
5°	433.8	433.8	432.0	433.2	432.0	432.6	430.1	430.7	429.5	430.7	428.3
7.5°	426.5	427.1	424.0	425.2	423.4	423.4	421.6	422.2	420.3	420.9	419.1
10°	417.9	417.3	414.2	415.4	413.0	413.0	411.1	411.1	408.7	409.3	406.9
12.5°	405.6	405.0	401.3	402.6	400.1	400.1	398.3	398.3	395.8	397.0	394.6
15°	391.5	390.9	387.2	387.9	385.4	385.4	383.0	383.6	381.7	383.0	380.5
17.5°	375.6	375.0	371.3	371.9	368.9	369.5	367.6	367.0	365.8	366.4	364.6
20°	359.1	357.8	354.2	354.8	353.5	351.7	350.5	351.1	349.9	351.1	349.3
22.5°	341.9	339.5	336.4	336.4	335.2	335.2	333.3	334.5	332.1	333.9	332.7
25°	322.3	320.5	318.0	319.2	316.8	316.8	314.9	315.6	314.3	315.6	314.3
27.5°	303.3	302.1	298.4	299.6	297.8	298.4	296.6	297.2	296.6	297.8	296.6
30°	283.1	282.5	280.0	280.0	279.4	278.8	278.2	278.2	277.6	279.4	278.2
32.5°	264.1	262.2	259.8	261.6	258.6	260.4	259.2	260.4	259.2	260.4	259.8
35°	244.5	243.9	240.8	241.4	240.8	240.8	240.2	240.2	240.2	242.0	242.0
37.5°	223.6	223.0	221.2	221.8	220.6	220.0	220.0	221.2	221.2	222.4	222.4
40°	203.4	204.0	202.2	202.2	201.6	201.6	201.6	202.8	202.2	203.4	202.8
42.5°	183.2	183.2	181.4	182.0	181.4	182.0	182.0	183.2	183.2	183.8	183.2
45°	164.2	164.2	163.6	164.2	163.0	163.6	163.0	164.2	163.6	164.2	164.2
47.5°	145.2	145.2	145.2	144.6	144.6	144.6	144.6	144.6	144.0	145.2	144.6
50°	127.4	128.1	127.4	127.4	126.8	127.4	126.8	126.8	125.6	126.2	126.2
52.5°	111.5	111.5	110.3	110.3	110.3	109.7	109.7	109.7	109.1	109.1	107.8
55°	96.2	96.2	95.0	95.0	94.4	93.7	93.1	93.1	91.3	91.3	89.5
57.5°	82.1	81.5	79.7	79.7	78.4	77.8	77.2	76.6	75.4	74.1	73.5
60°	69.2	68.0	66.8	66.2	64.9	63.7	62.5	61.3	60.0	59.4	58.8
62.5°	57.0	55.1	53.9	53.3	52.1	50.2	49.0	47.8	46.6	46.0	44.7
65°	46.0	44.1	42.3	41.7	40.4	39.2	37.4	36.2	34.9	34.3	34.3
67.5°	36.2	34.3	31.9	31.9	30.6	29.4	28.2	27.0	26.3	27.0	27.0
70°	27.0	25.7	23.9	23.3	22.1	20.8	20.2	20.2	20.2	20.8	20.2
72.5°	20.2	18.4	17.2	16.5	15.9	15.3	15.3	15.3	14.7	15.3	15.3
75°	14.1	12.9	11.6	11.6	11.0	11.0	11.0	11.0	11.0	11.0	11.0
77.5°	9.8	8.6	8.0	8.0	8.0	7.4	7.4	7.4	7.4	7.4	7.4
80°	6.1	6.1	5.5	5.5	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	3.7	3.7	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	1.8	1.8	1.8	1.8	1.8	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	0.6	0.6	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	441.2	441.2	441.2	441.2	441.2	441.2	441.2	441.2
2.5°	435.6	437.5	435.0	436.9	436.3	435.6	434.4	436.9
5°	428.3	428.9	426.5	428.9	428.3	427.1	425.8	428.3
7.5°	417.9	419.7	416.7	419.1	418.5	417.3	416.0	418.5
10°	406.2	408.1	405.6	407.5	407.5	406.2	404.4	406.9
12.5°	393.4	394.6	392.1	394.6	394.0	392.8	392.1	394.0
15°	379.3	381.1	378.7	380.5	379.9	379.3	378.7	380.5
17.5°	364.0	365.8	364.0	365.8	365.8	364.0	363.3	364.6
20°	348.6	349.9	348.0	349.9	349.3	349.3	348.0	349.9
22.5°	331.5	333.3	332.1	333.3	332.7	332.7	332.1	333.3
25°	314.3	316.2	314.3	316.2	315.6	315.6	314.3	317.4
27.5°	297.2	298.4	296.6	299.0	298.4	297.2	297.8	298.4
30°	278.8	280.0	278.8	280.6	280.6	280.6	279.4	280.6
32.5°	260.4	262.2	260.4	262.2	261.6	261.6	261.0	262.2
35°	242.0	242.6	241.4	243.3	243.3	243.9	242.6	244.5
37.5°	223.0	223.6	223.0	223.6	224.9	223.0	224.3	224.9
40°	203.4	204.7	204.0	204.7	204.7	205.3	204.7	205.3
42.5°	183.8	185.0	183.8	185.7	185.0	185.0	185.7	185.7
45°	163.6	165.4	164.2	165.4	166.0	165.4	165.4	166.7
47.5°	144.6	145.8	145.2	145.8	145.8	145.8	145.8	147.1
50°	125.6	126.2	126.2	126.8	126.8	127.4	126.2	126.8
52.5°	106.6	107.8	107.8	107.8	107.2	107.8	107.8	107.8
55°	89.5	90.1	88.8	90.1	90.1	89.5	89.5	90.7
57.5°	72.9	72.9	72.9	72.9	72.9	72.3	72.9	72.9
60°	57.6	58.2	57.6	57.6	57.6	57.6	57.0	58.2
62.5°	44.7	44.7	44.1	44.7	44.7	44.7	45.3	45.3
65°	34.9	35.5	34.9	35.5	35.5	35.5	35.5	36.2
67.5°	27.6	27.6	27.6	27.6	27.6	27.6	27.6	27.6
70°	20.8	20.8	20.8	21.4	20.8	20.8	20.8	21.4
72.5°	15.3	15.3	15.3	15.3	15.3	15.3	15.9	15.9
75°	11.0	11.0	11.0	11.0	11.0	11.0	11.0	11.0
77.5°	7.4	7.4	7.4	8.0	7.4	8.0	7.4	7.4
80°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
82.5°	3.1	3.1	3.1	3.1	3.1	3.1	3.1	3.1
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
87.5°	1.2	1.2	1.2	1.2	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)