

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: P252249

Luminaire Tested: **LD6B15D010 EU6B10208050 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252249
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: LD6B15D010 EU6B10208050 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 5000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1403.0 lumens
Efficiency: N/A
Efficacy: 97.5 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

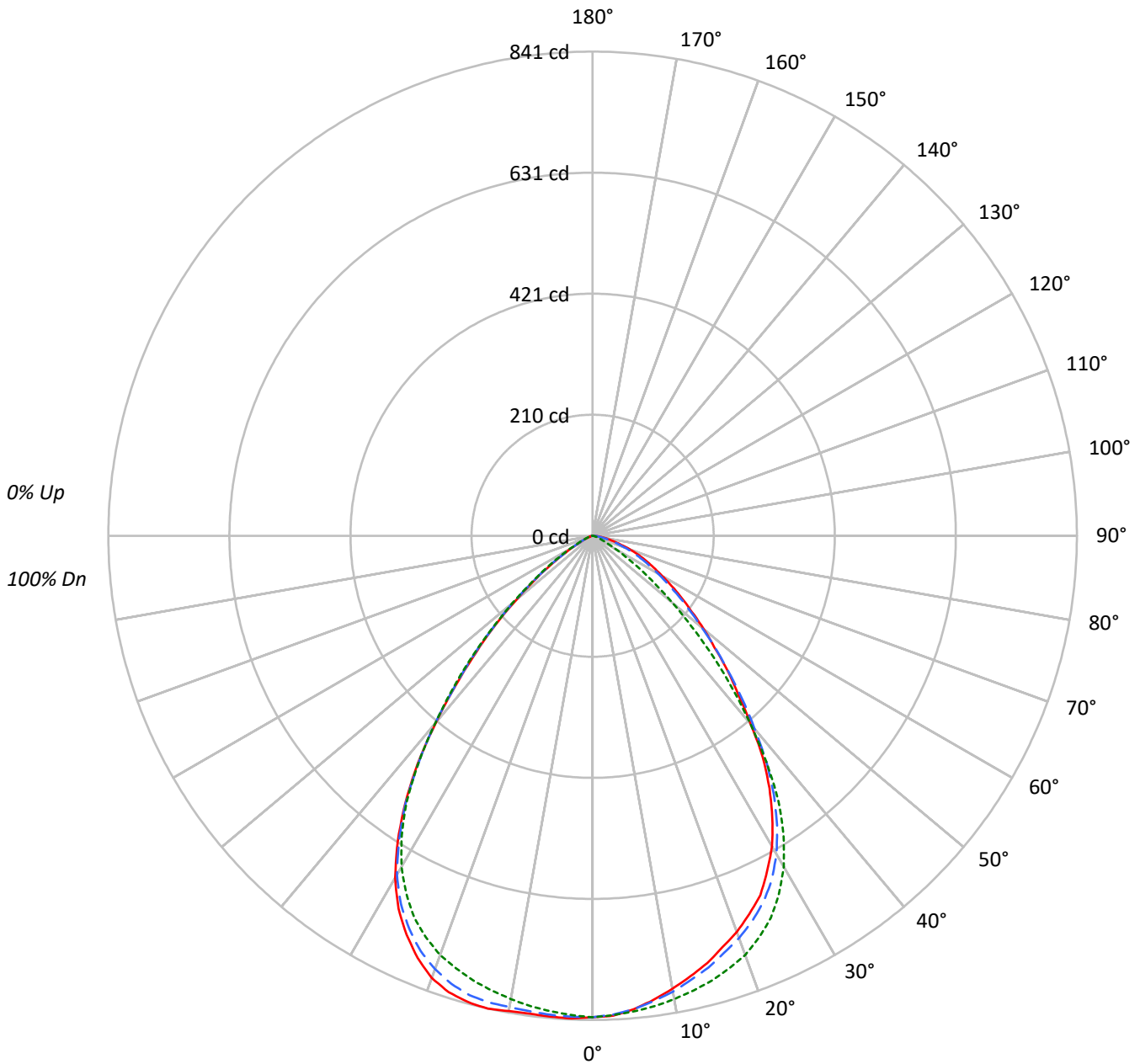
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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°	54561	54561	54561
5°	54042	54304	54900
10°	52925	54130	55535
15°	51913	54027	56621
20°	50835	53786	56729
25°	49583	52707	55040
30°	46948	49991	51664
35°	42633	44808	45206
40°	36383	36212	36042
45°	30567	27116	26277
50°	25526	18351	17427
55°	21486	11261	10226
60°	18189	5924	5141
65°	15746	3118	2501
70°	13105	1927	1354
75°	9680	1260	756
80°	7589	751	376
85°	6063	749	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.8	5.6
10°-20°	225.7	16.1
20°-30°	333.2	23.8
30°-40°	343.4	24.5
40°-50°	237.2	16.9
50°-60°	116.9	8.3
60°-70°	47.4	3.4
70°-80°	16.9	1.2
80°-90°	3.5	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°	637.7	45.5
0°-40°	981.1	69.9
0°-60°	1335.2	95.2
0°-90°	1403.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1403.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	836	836	836	836	836	
5°	825	825	829	835	838	78
15°	769	777	800	826	838	216
25°	689	702	732	754	765	315
35°	535	548	563	566	568	332
45°	331	333	294	290	285	256
55°	189	182	99	93	90	171
65°	102	92	20	16	16	101
75°	38	32	5	3	3	43
85°	8	6	1	0	0	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°	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3
2.5°	834.3	831.2	833.2	829.2	834.3	829.2	830.2	831.2	830.2	831.2	832.2
5°	825.2	822.1	825.2	820.1	825.2	822.1	822.1	823.1	823.1	824.2	825.2
7.5°	813.0	810.0	813.0	808.0	814.1	811.0	811.0	813.0	812.0	813.0	815.1
10°	798.9	794.9	797.9	794.9	800.9	796.9	798.9	798.9	798.9	801.9	804.0
12.5°	783.8	779.7	783.8	778.7	784.8	781.7	782.7	785.8	786.8	788.8	789.8
15°	768.6	763.6	765.6	762.5	768.6	765.6	766.6	770.6	770.6	773.7	776.7
17.5°	749.4	745.4	749.4	745.4	750.4	748.4	750.4	753.5	753.5	756.5	759.5
20°	732.2	728.2	731.2	728.2	734.3	731.2	732.2	736.3	737.3	740.3	743.4
22.5°	711.0	708.0	710.0	707.0	713.1	711.0	712.0	716.1	717.1	719.1	724.2
25°	688.8	682.8	685.8	683.8	689.8	686.8	688.8	692.9	694.9	697.9	701.9
27.5°	656.5	653.5	655.5	655.5	660.5	657.5	658.5	662.6	665.6	668.6	673.7
30°	623.2	618.1	620.1	621.1	625.2	623.2	625.2	629.2	630.2	634.3	638.3
32.5°	580.7	578.7	582.8	580.7	582.8	582.8	583.8	586.8	588.8	590.8	595.9
35°	535.3	531.3	535.3	533.3	538.3	535.3	538.3	541.4	541.4	545.4	548.4
37.5°	485.8	480.8	482.8	482.8	484.8	483.8	483.8	488.8	489.8	492.9	495.9
40°	427.2	425.2	429.2	428.2	429.2	429.2	430.3	433.3	435.3	436.3	437.3
42.5°	374.7	375.7	376.7	376.7	376.7	376.7	376.7	380.8	379.8	382.8	383.8
45°	331.3	327.2	329.3	328.2	331.3	328.2	331.3	334.3	332.3	335.3	333.3
47.5°	286.8	286.8	286.8	285.8	287.8	286.8	288.9	289.9	289.9	289.9	288.9
50°	251.5	248.5	249.5	249.5	250.5	249.5	251.5	252.5	252.5	250.5	246.4
52.5°	217.1	216.1	216.1	218.2	218.2	217.1	217.1	217.1	217.1	214.1	212.1
55°	188.9	186.8	187.9	187.9	187.9	187.9	188.9	187.9	187.9	184.8	181.8
57.5°	163.6	161.6	161.6	161.6	162.6	161.6	161.6	161.6	160.6	157.6	153.5
60°	139.4	138.4	139.4	139.4	140.4	139.4	139.4	139.4	137.4	134.3	130.3
62.5°	119.2	119.2	119.2	120.2	120.2	119.2	119.2	118.2	117.2	113.1	109.1
65°	102.0	101.0	102.0	102.0	103.0	103.0	102.0	101.0	100.0	95.9	91.9
67.5°	84.8	83.8	84.8	84.8	85.8	84.8	84.8	84.8	81.8	79.8	75.7
70°	68.7	67.7	67.7	67.7	68.7	66.7	67.7	67.7	65.6	62.6	58.6
72.5°	52.5	52.5	52.5	52.5	52.5	52.5	51.5	51.5	49.5	46.5	44.4
75°	38.4	38.4	39.4	39.4	38.4	38.4	38.4	37.4	36.4	34.3	32.3
77.5°	28.3	28.3	28.3	28.3	27.3	27.3	27.3	26.3	25.2	24.2	22.2
80°	20.2	20.2	20.2	19.2	20.2	19.2	19.2	19.2	17.2	16.2	15.1
82.5°	14.1	13.1	13.1	13.1	13.1	13.1	13.1	12.1	12.1	11.1	10.1
85°	8.1	8.1	8.1	8.1	8.1	8.1	8.1	8.1	7.1	6.1	6.1
87.5°	4.0	5.0	5.0	5.0	5.0	5.0	5.0	4.0	4.0	4.0	3.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3
2.5°	832.2	832.2	834.3	831.2	836.3	833.2	832.2	837.3	834.3	833.2	835.3
5°	825.2	826.2	827.2	825.2	830.2	827.2	827.2	832.2	830.2	829.2	832.2
7.5°	816.1	817.1	819.1	818.1	822.1	820.1	821.1	826.2	824.2	824.2	827.2
10°	805.0	807.0	809.0	809.0	814.1	812.0	812.0	818.1	816.1	817.1	821.1
12.5°	791.8	794.9	797.9	798.9	804.0	800.9	801.9	809.0	808.0	809.0	813.0
15°	777.7	781.7	784.8	784.8	790.8	787.8	790.8	797.9	795.9	799.9	805.0
17.5°	761.5	765.6	769.6	770.6	776.7	774.7	778.7	785.8	785.8	787.8	793.9
20°	746.4	751.4	753.5	756.5	762.5	761.5	763.6	771.6	771.6	774.7	780.7
22.5°	726.2	731.2	735.3	738.3	743.4	743.4	746.4	753.5	753.5	755.5	761.5
25°	704.0	710.0	713.1	716.1	721.1	720.1	723.2	729.2	730.2	732.2	738.3
27.5°	675.7	680.7	684.8	686.8	693.9	689.8	692.9	699.9	698.9	700.9	706.0
30°	640.3	645.4	649.4	649.4	655.5	655.5	658.5	661.5	661.5	663.6	667.6
32.5°	598.9	605.0	605.0	608.0	612.1	608.0	612.1	616.1	614.1	617.1	620.1
35°	551.5	554.5	555.5	555.5	558.5	557.5	556.5	559.5	557.5	562.6	565.6
37.5°	493.9	497.9	495.9	497.9	496.9	493.9	493.9	498.9	494.9	495.9	498.9
40°	438.3	438.3	437.3	432.3	433.3	430.3	429.2	430.3	426.2	425.2	429.2
42.5°	380.8	379.8	376.7	369.7	370.7	365.6	361.6	361.6	359.6	358.5	359.6
45°	329.3	326.2	321.2	313.1	311.1	307.0	299.0	296.9	293.9	293.9	294.9
47.5°	281.8	277.7	269.7	260.6	255.5	250.5	242.4	239.4	234.3	232.3	234.3
50°	242.4	235.3	225.2	212.1	207.0	201.0	192.9	187.9	182.8	180.8	179.8
52.5°	206.0	195.9	185.8	169.7	165.6	159.6	148.5	143.4	138.4	134.3	134.3
55°	174.7	165.6	151.5	136.3	130.3	124.2	113.1	106.0	101.0	99.0	97.0
57.5°	146.4	136.3	123.2	107.1	101.0	94.9	83.8	76.8	71.7	68.7	66.7
60°	123.2	112.1	99.0	84.8	77.8	71.7	60.6	53.5	48.5	45.4	43.4
62.5°	101.0	91.9	78.8	65.6	59.6	53.5	44.4	37.4	32.3	30.3	27.3
65°	84.8	75.7	63.6	52.5	47.5	41.4	33.3	27.3	23.2	20.2	18.2
67.5°	68.7	61.6	51.5	41.4	36.4	32.3	25.2	20.2	16.2	14.1	13.1
70°	54.5	47.5	39.4	31.3	28.3	24.2	19.2	14.1	12.1	10.1	9.1
72.5°	40.4	35.3	29.3	23.2	20.2	18.2	13.1	11.1	8.1	7.1	6.1
75°	29.3	25.2	21.2	16.2	14.1	13.1	10.1	7.1	6.1	5.0	4.0
77.5°	20.2	18.2	14.1	11.1	10.1	9.1	7.1	5.0	4.0	3.0	3.0
80°	13.1	11.1	9.1	7.1	7.1	6.1	4.0	3.0	3.0	2.0	2.0
82.5°	8.1	7.1	6.1	5.0	4.0	4.0	3.0	2.0	2.0	1.0	1.0
85°	5.0	4.0	3.0	3.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0
87.5°	2.0	2.0	2.0	1.0	1.0	1.0	1.0	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°	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3
2.5°	835.3	835.3	837.3	834.3	836.3	836.3	838.3	834.3	836.3	837.3	839.3
5°	831.2	832.2	834.3	833.2	834.3	834.3	836.3	831.2	835.3	835.3	838.3
7.5°	827.2	827.2	829.2	828.2	830.2	831.2	833.2	829.2	833.2	833.2	836.3
10°	822.1	822.1	825.2	824.2	827.2	828.2	831.2	827.2	831.2	832.2	835.3
12.5°	815.1	816.1	819.1	819.1	822.1	824.2	827.2	825.2	830.2	831.2	835.3
15°	807.0	809.0	813.0	812.0	815.1	818.1	822.1	819.1	826.2	828.2	832.2
17.5°	796.9	798.9	801.9	801.9	805.0	807.0	812.0	810.0	816.1	817.1	822.1
20°	781.7	784.8	788.8	787.8	790.8	792.8	796.9	794.9	800.9	802.9	808.0
22.5°	763.6	765.6	768.6	768.6	771.6	773.7	777.7	774.7	780.7	781.7	785.8
25°	739.3	741.3	743.4	744.4	747.4	748.4	750.4	748.4	753.5	754.5	759.5
27.5°	708.0	709.0	712.0	712.0	714.1	715.1	718.1	714.1	721.1	721.1	724.2
30°	670.6	669.6	673.7	671.6	673.7	673.7	676.7	674.7	679.7	677.7	680.7
32.5°	621.1	623.2	623.2	621.1	625.2	624.2	624.2	622.2	625.2	626.2	628.2
35°	563.6	566.6	566.6	567.6	568.6	565.6	566.6	560.5	565.6	566.6	567.6
37.5°	501.0	497.9	499.9	496.9	502.0	495.9	495.9	491.9	495.9	495.9	496.9
40°	429.2	428.2	430.3	428.2	427.2	426.2	424.2	421.2	425.2	423.2	426.2
42.5°	361.6	360.6	360.6	358.5	357.5	357.5	355.5	353.5	352.5	352.5	357.5
45°	291.9	293.9	291.9	290.9	292.9	290.9	291.9	287.8	289.9	287.8	289.9
47.5°	233.3	234.3	232.3	230.3	233.3	230.3	230.3	227.2	231.3	231.3	229.3
50°	180.8	179.8	177.8	179.8	178.8	178.8	178.8	175.7	177.8	174.7	176.7
52.5°	133.3	132.3	132.3	131.3	132.3	131.3	131.3	130.3	130.3	129.3	130.3
55°	97.0	95.9	93.9	93.9	93.9	94.9	93.9	92.9	92.9	91.9	92.9
57.5°	65.6	63.6	63.6	63.6	63.6	62.6	62.6	61.6	62.6	61.6	62.6
60°	42.4	42.4	40.4	40.4	40.4	40.4	40.4	39.4	40.4	40.4	40.4
62.5°	26.3	26.3	25.2	24.2	25.2	24.2	24.2	24.2	25.2	24.2	25.2
65°	17.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
67.5°	12.1	11.1	11.1	11.1	11.1	11.1	11.1	10.1	11.1	11.1	11.1
70°	8.1	8.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	4.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	3.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	1.0	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	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	836.3	836.3	836.3	836.3	836.3	836.3	836.3	836.3
2.5°	836.3	837.3	835.3	836.3	834.3	836.3	837.3	839.3
5°	834.3	835.3	833.2	835.3	833.2	835.3	836.3	838.3
7.5°	832.2	834.3	832.2	834.3	832.2	834.3	835.3	837.3
10°	832.2	835.3	833.2	836.3	833.2	835.3	837.3	838.3
12.5°	832.2	835.3	834.3	836.3	835.3	837.3	839.3	841.3
15°	830.2	833.2	831.2	834.3	833.2	834.3	838.3	838.3
17.5°	819.1	822.1	822.1	824.2	824.2	827.2	829.2	831.2
20°	805.0	808.0	807.0	810.0	810.0	813.0	815.1	817.1
22.5°	783.8	787.8	786.8	789.8	788.8	790.8	794.9	793.9
25°	756.5	761.5	760.5	762.5	761.5	761.5	763.6	764.6
27.5°	723.2	726.2	725.2	727.2	725.2	727.2	729.2	730.2
30°	679.7	681.7	680.7	681.7	680.7	682.8	683.8	685.8
32.5°	627.2	630.2	627.2	629.2	628.2	628.2	632.3	630.2
35°	564.6	565.6	566.6	566.6	564.6	565.6	567.6	567.6
37.5°	494.9	499.9	493.9	496.9	495.9	495.9	495.9	498.9
40°	422.2	423.2	421.2	421.2	421.2	420.2	424.2	423.2
42.5°	353.5	354.5	353.5	350.5	351.5	351.5	354.5	350.5
45°	286.8	288.9	287.8	287.8	285.8	285.8	286.8	284.8
47.5°	227.2	229.3	226.2	227.2	225.2	227.2	226.2	228.3
50°	172.7	174.7	173.7	174.7	174.7	172.7	175.7	171.7
52.5°	129.3	130.3	129.3	128.3	127.3	127.3	129.3	128.3
55°	91.9	90.9	90.9	90.9	91.9	91.9	90.9	89.9
57.5°	61.6	61.6	60.6	60.6	61.6	59.6	60.6	59.6
60°	39.4	39.4	39.4	39.4	38.4	39.4	39.4	39.4
62.5°	24.2	24.2	24.2	24.2	24.2	24.2	24.2	24.2
65°	16.2	16.2	16.2	16.2	16.2	16.2	16.2	16.2
67.5°	10.1	11.1	11.1	11.1	10.1	10.1	10.1	10.1
70°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
72.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0
75°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0
77.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
80°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
82.5°	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.0	1.0	1.0	1.0	1.0	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)