

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: P252246

Luminaire Tested: **LD6B15D010 EU6B10208030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252246
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 EU6B10208030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1355.0 lumens
Efficiency: N/A
Efficacy: 94.2 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

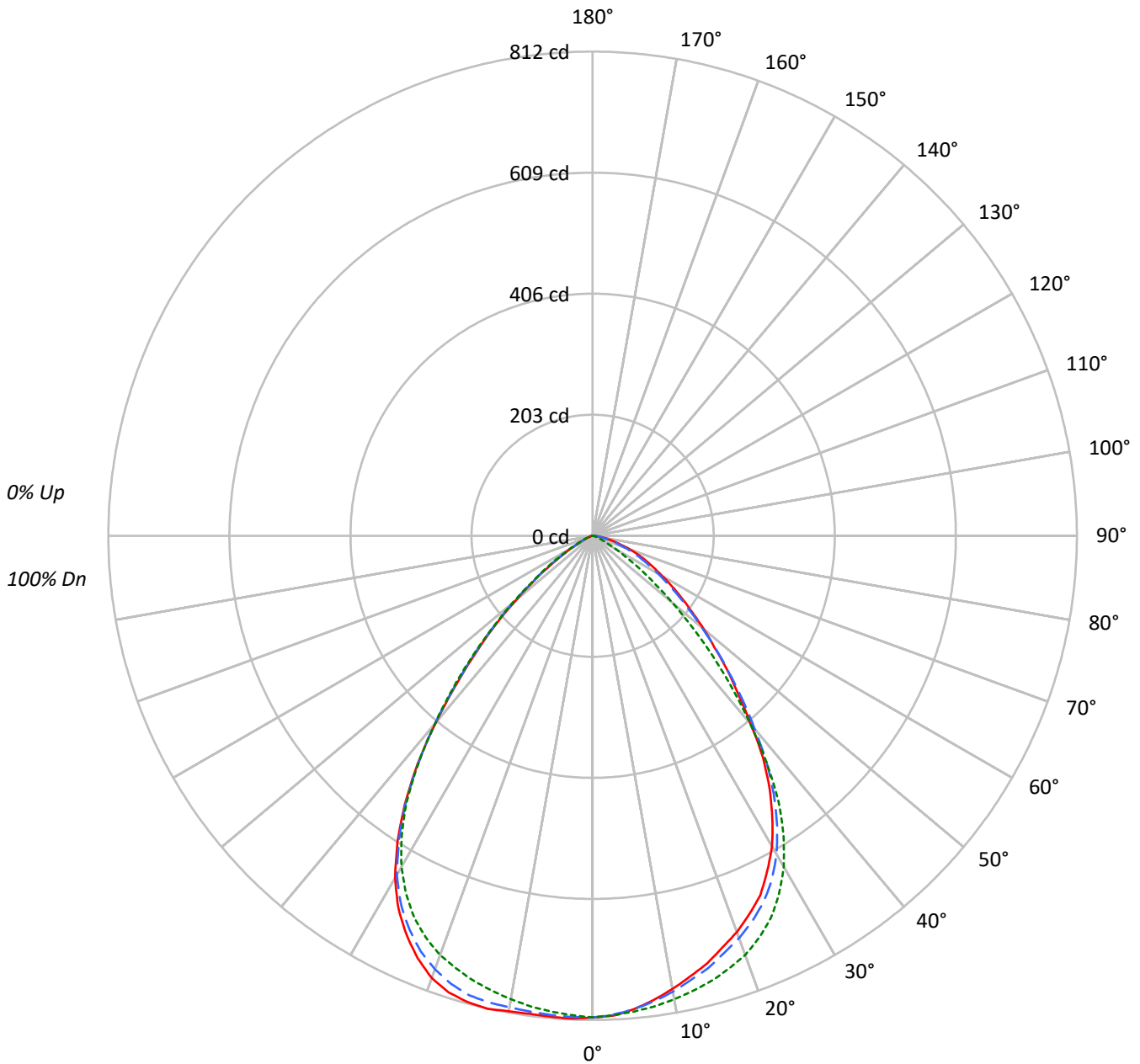
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	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°	52695	52695	52695
5°	52189	52444	53021
10°	51116	52276	53634
15°	50136	52176	54682
20°	49099	51946	54785
25°	47884	50908	53154
30°	45336	48281	49893
35°	41176	43271	43661
40°	35139	34978	34807
45°	29515	26194	25382
50°	24653	17721	16828
55°	20747	10874	9873
60°	17563	5728	4958
65°	15206	3010	2408
70°	12647	1869	1297
75°	9352	1235	731
80°	7326	751	376
85°	5839	749	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	5.6
10°-20°	217.9	16.1
20°-30°	321.8	23.8
30°-40°	331.7	24.5
40°-50°	229.1	16.9
50°-60°	112.9	8.3
60°-70°	45.7	3.4
70°-80°	16.3	1.2
80°-90°	3.4	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°	615.9	45.5
0°-40°	947.6	69.9
0°-60°	1289.6	95.2
0°-90°	1355.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1355.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	808	808	808	808	808	
5°	797	797	801	807	810	75
15°	742	750	772	798	810	209
25°	665	678	707	728	738	304
35°	517	530	543	546	548	320
45°	320	322	284	280	275	247
55°	182	176	96	90	87	165
65°	98	89	20	16	16	98
75°	37	31	5	3	3	42
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°	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7
2.5°	805.7	802.8	804.7	800.8	805.7	800.8	801.8	802.8	801.8	802.8	803.8
5°	796.9	794.0	796.9	792.1	796.9	794.0	794.0	795.0	795.0	796.0	796.9
7.5°	785.2	782.3	785.2	780.4	786.2	783.3	783.3	785.2	784.3	785.2	787.2
10°	771.6	767.7	770.6	767.7	773.5	769.6	771.6	771.6	771.6	774.5	776.4
12.5°	756.9	753.0	756.9	752.1	757.9	755.0	756.0	758.9	759.9	761.8	762.8
15°	742.3	737.4	739.4	736.5	742.3	739.4	740.4	744.3	744.3	747.2	750.1
17.5°	723.8	719.9	723.8	719.9	724.8	722.8	724.8	727.7	727.7	730.6	733.5
20°	707.2	703.3	706.2	703.3	709.1	706.2	707.2	711.1	712.1	715.0	717.9
22.5°	686.7	683.8	685.7	682.8	688.7	686.7	687.7	691.6	692.6	694.5	699.4
25°	665.2	659.4	662.3	660.4	666.2	663.3	665.2	669.2	671.1	674.0	677.9
27.5°	634.0	631.1	633.1	633.1	637.9	635.0	636.0	639.9	642.8	645.7	650.6
30°	601.8	597.0	598.9	599.9	603.8	601.8	603.8	607.7	608.7	612.6	616.5
32.5°	560.9	558.9	562.8	560.9	562.8	562.8	563.8	566.7	568.7	570.6	575.5
35°	517.0	513.1	517.0	515.0	519.9	517.0	519.9	522.8	522.8	526.7	529.7
37.5°	469.2	464.3	466.3	466.3	468.2	467.2	467.2	472.1	473.1	476.0	478.9
40°	412.6	410.7	414.6	413.6	414.6	414.6	415.5	418.5	420.4	421.4	422.4
42.5°	361.9	362.9	363.8	363.8	363.8	363.8	363.8	367.7	366.8	369.7	370.7
45°	319.9	316.0	318.0	317.0	319.9	317.0	319.9	322.9	320.9	323.8	321.9
47.5°	277.0	277.0	277.0	276.0	278.0	277.0	279.0	280.0	280.0	280.0	279.0
50°	242.9	240.0	240.9	240.9	241.9	240.9	242.9	243.9	243.9	241.9	238.0
52.5°	209.7	208.7	208.7	210.7	210.7	209.7	209.7	209.7	209.7	206.8	204.8
55°	182.4	180.5	181.4	181.4	181.4	181.4	182.4	181.4	181.4	178.5	175.6
57.5°	158.0	156.1	156.1	156.1	157.0	156.1	156.1	156.1	155.1	152.2	148.3
60°	134.6	133.6	134.6	134.6	135.6	134.6	134.6	134.6	132.7	129.7	125.8
62.5°	115.1	115.1	115.1	116.1	116.1	115.1	115.1	114.1	113.2	109.2	105.3
65°	98.5	97.5	98.5	98.5	99.5	99.5	98.5	97.5	96.6	92.7	88.8
67.5°	81.9	81.0	81.9	81.9	82.9	81.9	81.9	81.9	79.0	77.1	73.2
70°	66.3	65.4	65.4	65.4	66.3	64.4	65.4	65.4	63.4	60.5	56.6
72.5°	50.7	50.7	50.7	50.7	50.7	50.7	49.7	49.7	47.8	44.9	42.9
75°	37.1	37.1	38.0	38.0	37.1	37.1	37.1	36.1	35.1	33.2	31.2
77.5°	27.3	27.3	27.3	27.3	26.3	26.3	26.3	25.4	24.4	23.4	21.5
80°	19.5	19.5	19.5	18.5	19.5	18.5	18.5	18.5	16.6	15.6	14.6
82.5°	13.7	12.7	12.7	12.7	12.7	12.7	12.7	11.7	11.7	10.7	9.8
85°	7.8	7.8	7.8	7.8	7.8	7.8	7.8	7.8	6.8	5.9	5.9
87.5°	3.9	4.9	4.9	4.9	4.9	4.9	4.9	3.9	3.9	3.9	2.9
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°	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7
2.5°	803.8	803.8	805.7	802.8	807.7	804.7	803.8	808.6	805.7	804.7	806.7
5°	796.9	797.9	798.9	796.9	801.8	798.9	798.9	803.8	801.8	800.8	803.8
7.5°	788.2	789.1	791.1	790.1	794.0	792.1	793.0	797.9	796.0	796.0	798.9
10°	777.4	779.4	781.3	781.3	786.2	784.3	784.3	790.1	788.2	789.1	793.0
12.5°	764.7	767.7	770.6	771.6	776.4	773.5	774.5	781.3	780.4	781.3	785.2
15°	751.1	755.0	757.9	757.9	763.8	760.8	763.8	770.6	768.6	772.5	777.4
17.5°	735.5	739.4	743.3	744.3	750.1	748.2	752.1	758.9	758.9	760.8	766.7
20°	720.8	725.7	727.7	730.6	736.5	735.5	737.4	745.2	745.2	748.2	754.0
22.5°	701.3	706.2	710.1	713.0	717.9	717.9	720.8	727.7	727.7	729.6	735.5
25°	679.9	685.7	688.7	691.6	696.5	695.5	698.4	704.3	705.2	707.2	713.0
27.5°	652.6	657.4	661.3	663.3	670.1	666.2	669.2	676.0	675.0	677.0	681.8
30°	618.4	623.3	627.2	627.2	633.1	633.1	636.0	638.9	638.9	640.9	644.8
32.5°	578.4	584.3	584.3	587.2	591.1	587.2	591.1	595.0	593.1	596.0	598.9
35°	532.6	535.5	536.5	536.5	539.4	538.4	537.5	540.4	538.4	543.3	546.2
37.5°	477.0	480.9	478.9	480.9	479.9	477.0	477.0	481.9	478.0	478.9	481.9
40°	423.3	423.3	422.4	417.5	418.5	415.5	414.6	415.5	411.6	410.7	414.6
42.5°	367.7	366.8	363.8	357.0	358.0	353.1	349.2	349.2	347.3	346.3	347.3
45°	318.0	315.1	310.2	302.4	300.4	296.5	288.7	286.8	283.9	283.9	284.8
47.5°	272.1	268.2	260.4	251.7	246.8	241.9	234.1	231.2	226.3	224.4	226.3
50°	234.1	227.3	217.5	204.8	200.0	194.1	186.3	181.4	176.6	174.6	173.6
52.5°	199.0	189.2	179.5	163.9	160.0	154.1	143.4	138.5	133.6	129.7	129.7
55°	168.8	160.0	146.3	131.7	125.8	120.0	109.2	102.4	97.5	95.6	93.6
57.5°	141.4	131.7	119.0	103.4	97.5	91.7	81.0	74.1	69.3	66.3	64.4
60°	119.0	108.3	95.6	81.9	75.1	69.3	58.5	51.7	46.8	43.9	41.9
62.5°	97.5	88.8	76.1	63.4	57.6	51.7	42.9	36.1	31.2	29.3	26.3
65°	81.9	73.2	61.5	50.7	45.8	40.0	32.2	26.3	22.4	19.5	17.6
67.5°	66.3	59.5	49.7	40.0	35.1	31.2	24.4	19.5	15.6	13.7	12.7
70°	52.7	45.8	38.0	30.2	27.3	23.4	18.5	13.7	11.7	9.8	8.8
72.5°	39.0	34.1	28.3	22.4	19.5	17.6	12.7	10.7	7.8	6.8	5.9
75°	28.3	24.4	20.5	15.6	13.7	12.7	9.8	6.8	5.9	4.9	3.9
77.5°	19.5	17.6	13.7	10.7	9.8	8.8	6.8	4.9	3.9	2.9	2.9
80°	12.7	10.7	8.8	6.8	6.8	5.9	3.9	2.9	2.9	2.0	2.0
82.5°	7.8	6.8	5.9	4.9	3.9	3.9	2.9	2.0	2.0	1.0	1.0
85°	4.9	3.9	2.9	2.9	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°	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7
2.5°	806.7	806.7	808.6	805.7	807.7	807.7	809.6	805.7	807.7	808.6	810.6
5°	802.8	803.8	805.7	804.7	805.7	805.7	807.7	802.8	806.7	806.7	809.6
7.5°	798.9	798.9	800.8	799.9	801.8	802.8	804.7	800.8	804.7	804.7	807.7
10°	794.0	794.0	796.9	796.0	798.9	799.9	802.8	798.9	802.8	803.8	806.7
12.5°	787.2	788.2	791.1	791.1	794.0	796.0	798.9	796.9	801.8	802.8	806.7
15°	779.4	781.3	785.2	784.3	787.2	790.1	794.0	791.1	797.9	799.9	803.8
17.5°	769.6	771.6	774.5	774.5	777.4	779.4	784.3	782.3	788.2	789.1	794.0
20°	755.0	757.9	761.8	760.8	763.8	765.7	769.6	767.7	773.5	775.5	780.4
22.5°	737.4	739.4	742.3	742.3	745.2	747.2	751.1	748.2	754.0	755.0	758.9
25°	714.0	716.0	717.9	718.9	721.8	722.8	724.8	722.8	727.7	728.7	733.5
27.5°	683.8	684.8	687.7	687.7	689.6	690.6	693.5	689.6	696.5	696.5	699.4
30°	647.7	646.7	650.6	648.7	650.6	650.6	653.5	651.6	656.5	654.5	657.4
32.5°	599.9	601.8	601.8	599.9	603.8	602.8	602.8	600.9	603.8	604.8	606.7
35°	544.3	547.2	547.2	548.2	549.2	546.2	547.2	541.4	546.2	547.2	548.2
37.5°	483.8	480.9	482.8	479.9	484.8	478.9	478.9	475.0	478.9	478.9	479.9
40°	414.6	413.6	415.5	413.6	412.6	411.6	409.7	406.8	410.7	408.7	411.6
42.5°	349.2	348.2	348.2	346.3	345.3	345.3	343.4	341.4	340.4	340.4	345.3
45°	281.9	283.9	281.9	280.9	282.9	280.9	281.9	278.0	280.0	278.0	280.0
47.5°	225.3	226.3	224.4	222.4	225.3	222.4	222.4	219.5	223.4	223.4	221.4
50°	174.6	173.6	171.7	173.6	172.7	172.7	172.7	169.7	171.7	168.8	170.7
52.5°	128.8	127.8	127.8	126.8	127.8	126.8	126.8	125.8	125.8	124.9	125.8
55°	93.6	92.7	90.7	90.7	90.7	91.7	90.7	89.7	89.7	88.8	89.7
57.5°	63.4	61.5	61.5	61.5	61.5	60.5	60.5	59.5	60.5	59.5	60.5
60°	41.0	41.0	39.0	39.0	39.0	39.0	39.0	38.0	39.0	39.0	39.0
62.5°	25.4	25.4	24.4	23.4	24.4	23.4	23.4	23.4	24.4	23.4	24.4
65°	16.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
67.5°	11.7	10.7	10.7	10.7	10.7	10.7	10.7	9.8	10.7	10.7	10.7
70°	7.8	7.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75°	3.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
77.5°	2.9	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°	807.7	807.7	807.7	807.7	807.7	807.7	807.7	807.7
2.5°	807.7	808.6	806.7	807.7	805.7	807.7	808.6	810.6
5°	805.7	806.7	804.7	806.7	804.7	806.7	807.7	809.6
7.5°	803.8	805.7	803.8	805.7	803.8	805.7	806.7	808.6
10°	803.8	806.7	804.7	807.7	804.7	806.7	808.6	809.6
12.5°	803.8	806.7	805.7	807.7	806.7	808.6	810.6	812.5
15°	801.8	804.7	802.8	805.7	804.7	805.7	809.6	809.6
17.5°	791.1	794.0	794.0	796.0	796.0	798.9	800.8	802.8
20°	777.4	780.4	779.4	782.3	782.3	785.2	787.2	789.1
22.5°	756.9	760.8	759.9	762.8	761.8	763.8	767.7	766.7
25°	730.6	735.5	734.5	736.5	735.5	735.5	737.4	738.4
27.5°	698.4	701.3	700.4	702.3	700.4	702.3	704.3	705.2
30°	656.5	658.4	657.4	658.4	657.4	659.4	660.4	662.3
32.5°	605.7	608.7	605.7	607.7	606.7	606.7	610.6	608.7
35°	545.3	546.2	547.2	547.2	545.3	546.2	548.2	548.2
37.5°	478.0	482.8	477.0	479.9	478.9	478.9	478.9	481.9
40°	407.7	408.7	406.8	406.8	406.8	405.8	409.7	408.7
42.5°	341.4	342.4	341.4	338.5	339.5	339.5	342.4	338.5
45°	277.0	279.0	278.0	278.0	276.0	276.0	277.0	275.1
47.5°	219.5	221.4	218.5	219.5	217.5	219.5	218.5	220.4
50°	166.8	168.8	167.8	168.8	168.8	166.8	169.7	165.8
52.5°	124.9	125.8	124.9	123.9	122.9	122.9	124.9	123.9
55°	88.8	87.8	87.8	87.8	88.8	88.8	87.8	86.8
57.5°	59.5	59.5	58.5	58.5	59.5	57.6	58.5	57.6
60°	38.0	38.0	38.0	38.0	37.1	38.0	38.0	38.0
62.5°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	23.4
65°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	15.6
67.5°	9.8	10.7	10.7	10.7	9.8	9.8	9.8	9.8
70°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
72.5°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
75°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
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)