

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: P252368

Luminaire Tested: **LD6B20D010 EU6B10209027 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252368
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B20D010 EU6B10209027 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1513.0 lumens
Efficiency: N/A
Efficacy: 72.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

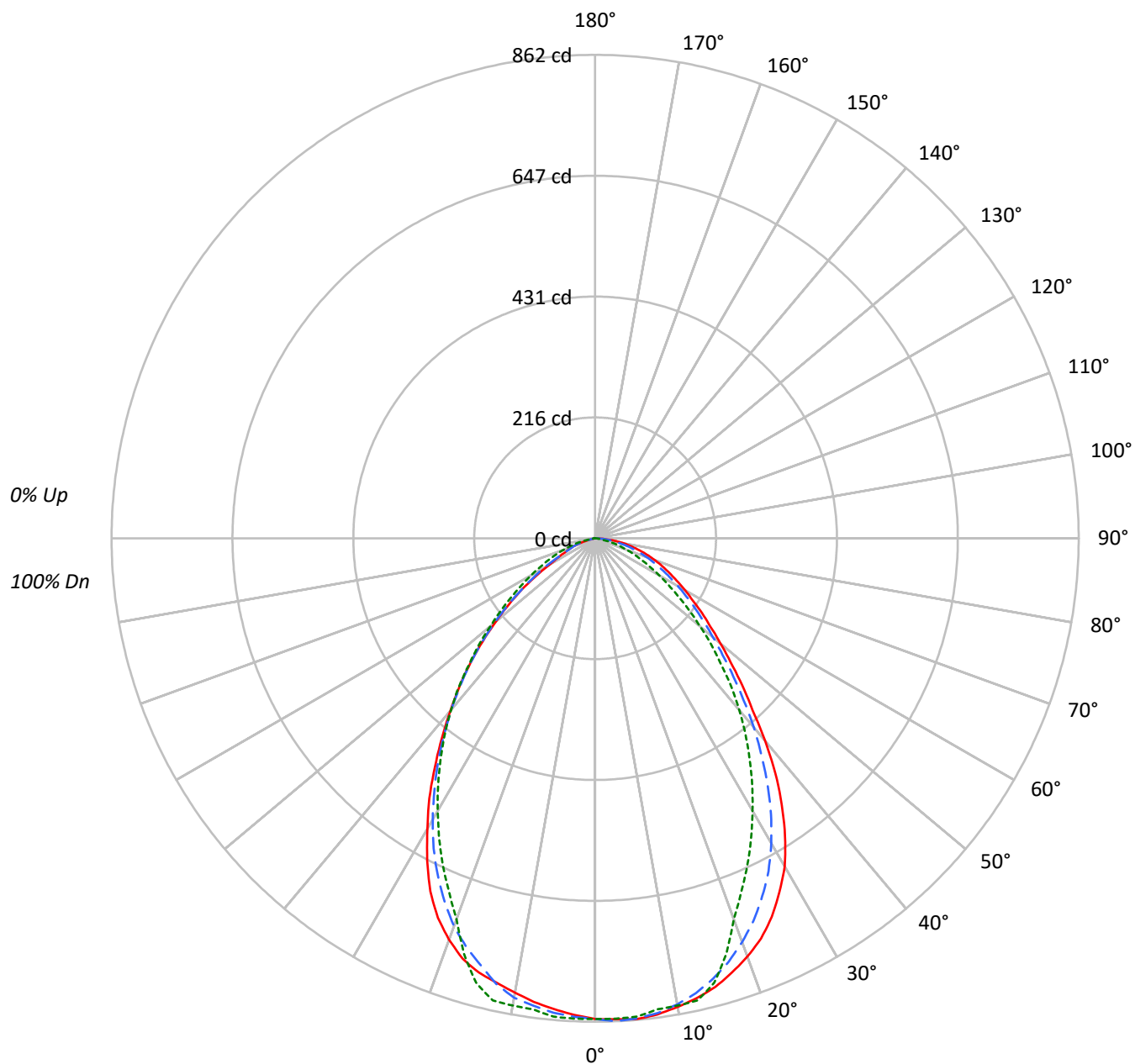
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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
RW	70	50	30	10	70	50	30	10		50	30	10			50	30	10			50
RCR																				
0	119	119	119	119	116	116	116	116		111	111	111			106	106	106			102
1	111	107	104	101	108	105	102	99		101	98	96			97	95	93			93
2	103	96	90	86	100	94	89	85		91	86	83			88	84	81			85
3	95	86	80	74	93	85	79	73		82	77	72			79	75	71			77
4	88	78	71	65	86	77	70	64		74	68	64			72	67	63			70
5	82	71	63	57	80	70	63	57		68	62	57			66	60	56			64
6	77	65	57	51	75	64	57	51		62	56	51			61	55	50			59
7	72	60	52	46	70	59	51	46		57	51	46			56	50	46			55
8	67	55	47	42	66	54	47	42		53	46	42			52	46	42			51
9	63	51	43	38	62	50	43	38		49	43	38			48	42	38			47
10	59	47	40	35	58	47	40	35		46	40	35			45	39	35			44

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	55931	55931	55931
5°	56361	56072	55195
10°	56204	56052	54508
15°	55945	55418	54142
20°	55112	50168	52869
25°	53614	46243	50008
30°	50910	42270	45042
35°	46202	38221	39639
40°	40104	34041	34134
45°	34202	29275	28971
50°	29606	24745	23395
55°	26468	20644	18108
60°	24113	17145	12200
65°	22508	14094	9108
70°	21440	11464	7649
75°	20216	8142	2521
80°	19236	4170	827
85°	15869	2470	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.9	5.4
10°-20°	226.4	15.0
20°-30°	312.5	20.7
30°-40°	318.0	21.0
40°-50°	255.6	16.9
50°-60°	170.0	11.2
60°-70°	96.8	6.4
70°-80°	43.5	2.9
80°-90°	9.2	0.6
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°	619.9	41.0
0°-40°	937.9	62.0
0°-60°	1363.5	90.1
0°-90°	1513.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1513.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	857	857	857	857	857	
5°	861	860	856	850	843	82
15°	828	813	820	788	802	233
25°	745	705	642	664	695	341
35°	580	536	480	489	498	360
45°	371	348	317	314	314	287
55°	233	217	182	161	159	209
65°	146	130	91	59	59	145
75°	80	67	32	13	10	86
85°	21	14	3	1	0	25
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°	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3
2.5°	858.4	862.8	861.7	860.6	861.7	860.6	858.4	858.4	856.2	856.2	861.7
5°	860.6	862.8	861.7	860.6	860.6	861.7	857.3	857.3	855.1	853.9	859.5
7.5°	856.2	859.5	857.3	857.3	856.2	857.3	852.8	852.8	849.5	848.4	853.9
10°	848.4	852.8	850.6	850.6	850.6	848.4	846.1	845.0	841.7	840.6	843.9
12.5°	839.5	842.8	841.7	839.5	839.5	839.5	835.0	833.9	829.4	827.2	830.6
15°	828.3	830.6	829.4	828.3	826.1	826.1	821.7	819.4	815.0	810.5	812.7
17.5°	811.6	815.0	812.7	811.6	808.3	808.3	803.8	801.6	794.9	790.5	791.6
20°	793.8	794.9	793.8	791.6	788.3	787.1	782.7	778.2	772.7	767.1	766.0
22.5°	772.7	773.8	770.4	768.2	764.9	763.8	758.2	754.9	745.9	739.3	738.2
25°	744.8	745.9	745.9	740.4	738.2	735.9	730.4	724.8	717.0	708.1	704.7
27.5°	711.4	714.8	712.5	707.0	702.5	701.4	695.8	691.4	681.4	673.6	669.1
30°	675.8	674.7	673.6	670.2	663.6	662.4	656.9	651.3	643.5	633.5	627.9
32.5°	630.2	630.2	629.0	625.7	619.0	616.8	612.3	605.7	596.8	589.0	583.4
35°	580.1	581.2	580.1	573.4	568.9	566.7	564.5	556.7	548.9	540.0	535.5
37.5°	527.7	524.4	525.5	519.9	514.4	516.6	509.9	506.6	497.7	491.0	486.5
40°	470.9	473.2	468.7	466.5	463.2	459.8	459.8	454.2	449.8	442.0	439.8
42.5°	415.3	418.6	417.5	415.3	410.8	411.9	406.4	404.1	398.6	395.2	391.9
45°	370.7	370.7	370.7	368.5	367.4	365.2	361.8	358.5	355.2	350.7	348.5
47.5°	327.3	327.3	328.4	326.2	324.0	322.9	320.6	320.6	315.1	310.6	308.4
50°	291.7	291.7	291.7	289.5	287.2	287.2	285.0	282.8	279.5	276.1	273.9
52.5°	259.4	259.4	259.4	257.2	256.1	255.0	253.8	252.7	248.3	246.1	243.8
55°	232.7	231.6	231.6	230.5	228.2	228.2	227.1	224.9	221.6	218.2	217.1
57.5°	206.0	207.1	206.0	206.0	203.7	203.7	201.5	200.4	197.1	194.8	192.6
60°	184.8	184.8	184.8	183.7	181.5	182.6	180.4	179.2	175.9	172.6	170.3
62.5°	163.7	164.8	164.8	163.7	161.4	161.4	160.3	159.2	155.9	152.5	149.2
65°	145.8	145.8	145.8	144.7	143.6	143.6	142.5	141.4	138.1	133.6	130.3
67.5°	129.1	128.0	128.0	128.0	126.9	125.8	124.7	123.6	120.2	116.9	112.4
70°	112.4	112.4	112.4	111.3	109.1	110.2	109.1	108.0	104.7	101.3	98.0
72.5°	96.9	96.9	95.7	94.6	94.6	93.5	93.5	92.4	89.1	84.6	81.3
75°	80.2	80.2	80.2	80.2	77.9	79.0	76.8	75.7	73.5	70.1	66.8
77.5°	65.7	65.7	65.7	64.6	63.5	63.5	62.3	61.2	57.9	55.7	51.2
80°	51.2	51.2	51.2	51.2	50.1	49.0	47.9	46.8	44.5	41.2	37.9
82.5°	37.9	37.9	36.7	36.7	36.7	35.6	34.5	33.4	31.2	28.9	26.7
85°	21.2	22.3	22.3	20.0	21.2	20.0	20.0	17.8	17.8	15.6	14.5
87.5°	7.8	6.7	6.7	6.7	6.7	6.7	6.7	5.6	5.6	5.6	4.5
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3
2.5°	857.3	856.2	860.6	860.6	853.9	857.3	858.4	856.2	856.2	857.3	853.9
5°	855.1	852.8	857.3	858.4	851.7	855.1	856.2	853.9	855.1	856.2	851.7
7.5°	847.3	847.3	850.6	851.7	845.0	848.4	848.4	846.1	847.3	847.3	843.9
10°	839.5	836.1	839.5	839.5	833.9	835.0	837.2	836.1	840.6	846.1	846.1
12.5°	825.0	821.7	827.2	827.2	823.9	828.3	833.9	837.2	841.7	843.9	837.2
15°	807.2	808.3	818.3	826.1	822.8	829.4	835.0	832.8	827.2	820.5	810.5
17.5°	783.8	780.5	789.4	793.8	789.4	791.6	796.0	791.6	782.7	777.1	763.8
20°	757.1	748.2	748.2	745.9	738.2	738.2	737.0	729.2	725.9	722.6	717.0
22.5°	727.0	717.0	713.7	707.0	700.3	699.2	695.8	688.0	683.6	681.4	674.7
25°	692.5	683.6	678.0	671.3	661.3	659.1	655.8	648.0	645.7	642.4	636.8
27.5°	656.9	645.7	637.9	631.3	622.4	621.2	614.6	609.0	604.5	602.3	597.9
30°	615.7	603.4	597.9	589.0	582.3	580.1	574.5	566.7	563.4	561.1	557.8
32.5°	570.0	560.0	554.4	546.7	537.7	538.9	532.2	525.5	523.3	521.0	517.7
35°	525.5	515.5	508.8	502.1	496.6	494.3	489.9	484.3	481.0	479.9	477.6
37.5°	476.5	468.7	463.2	456.5	452.0	449.8	447.6	442.0	439.8	439.8	435.3
40°	428.6	422.0	417.5	414.2	408.6	407.5	405.3	401.9	400.8	399.7	396.4
42.5°	385.2	376.3	373.0	370.7	367.4	365.2	364.1	361.8	360.7	359.6	356.3
45°	344.0	336.2	332.9	330.7	327.3	326.2	325.1	321.8	319.5	317.3	316.2
47.5°	303.9	298.4	297.3	291.7	289.5	287.2	285.0	282.8	281.7	280.6	276.1
50°	269.4	266.1	260.5	257.2	255.0	253.8	249.4	246.1	244.9	243.8	240.5
52.5°	238.3	233.8	230.5	224.9	223.8	221.6	219.3	214.9	212.6	211.5	208.2
55°	210.4	207.1	202.6	198.2	194.8	193.7	190.4	185.9	183.7	181.5	179.2
57.5°	187.0	181.5	177.0	172.6	170.3	167.0	163.7	161.4	158.1	154.8	151.4
60°	164.8	160.3	154.8	150.3	148.1	145.8	141.4	138.1	134.7	131.4	128.0
62.5°	143.6	139.2	133.6	129.1	126.9	124.7	120.2	116.9	113.6	110.2	105.8
65°	124.7	120.2	115.8	111.3	109.1	106.9	102.4	98.0	94.6	91.3	86.8
67.5°	109.1	103.5	99.1	94.6	92.4	90.2	85.7	82.4	77.9	74.6	70.1
70°	92.4	88.0	84.6	80.2	77.9	75.7	71.3	66.8	63.5	60.1	55.7
72.5°	77.9	72.4	69.0	64.6	62.3	61.2	56.8	53.4	50.1	45.6	42.3
75°	62.3	57.9	53.4	50.1	47.9	46.8	42.3	39.0	35.6	32.3	28.9
77.5°	47.9	44.5	40.1	36.7	34.5	33.4	28.9	25.6	22.3	20.0	16.7
80°	35.6	31.2	28.9	25.6	24.5	22.3	20.0	16.7	14.5	11.1	8.9
82.5°	24.5	21.2	18.9	16.7	15.6	14.5	12.2	10.0	7.8	6.7	5.6
85°	13.4	11.1	10.0	8.9	7.8	7.8	6.7	5.6	4.5	3.3	2.2
87.5°	4.5	3.3	3.3	3.3	3.3	2.2	2.2	2.2	1.1	1.1	1.1
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3
2.5°	856.2	856.2	856.2	855.1	855.1	855.1	853.9	858.4	853.9	852.8	856.2
5°	855.1	852.8	852.8	852.8	852.8	851.7	850.6	852.8	849.5	848.4	848.4
7.5°	848.4	847.3	847.3	846.1	845.0	843.9	842.8	843.9	840.6	839.5	839.5
10°	849.5	847.3	847.3	843.9	841.7	838.4	835.0	836.1	831.7	828.3	828.3
12.5°	836.1	830.6	827.2	823.9	821.7	820.5	816.1	818.3	813.9	812.7	812.7
15°	806.1	799.4	793.8	791.6	791.6	789.4	786.0	790.5	788.3	789.4	794.9
17.5°	759.3	756.0	752.6	751.5	752.6	754.9	757.1	763.8	763.8	767.1	772.7
20°	718.1	715.9	718.1	718.1	719.2	723.7	728.1	733.7	735.9	739.3	747.1
22.5°	678.0	678.0	680.3	683.6	682.5	690.3	691.4	701.4	701.4	708.1	714.8
25°	639.1	639.1	641.3	642.4	644.6	649.1	653.5	661.3	663.6	670.2	675.8
27.5°	601.2	600.1	600.1	601.2	603.4	609.0	611.2	620.1	623.5	627.9	633.5
30°	558.9	557.8	560.0	562.2	561.1	566.7	570.0	576.7	578.9	583.4	587.8
32.5°	518.8	518.8	518.8	521.0	521.0	525.5	525.5	533.3	533.3	536.6	541.1
35°	477.6	477.6	478.7	479.9	481.0	482.1	483.2	487.6	488.8	489.9	492.1
37.5°	438.7	437.5	438.7	438.7	436.4	440.9	440.9	445.3	442.0	445.3	446.5
40°	398.6	398.6	397.5	397.5	397.5	399.7	397.5	400.8	398.6	400.8	399.7
42.5°	357.4	357.4	355.2	357.4	356.3	356.3	356.3	358.5	355.2	357.4	358.5
45°	316.2	315.1	315.1	314.0	314.0	314.0	315.1	315.1	314.0	316.2	316.2
47.5°	276.1	275.0	275.0	275.0	275.0	276.1	272.8	275.0	272.8	272.8	272.8
50°	241.6	240.5	239.4	238.3	237.1	237.1	236.0	236.0	233.8	232.7	231.6
52.5°	208.2	207.1	204.9	204.9	203.7	202.6	199.3	199.3	195.9	194.8	194.8
55°	178.1	174.8	173.7	171.5	171.5	169.2	167.0	164.8	161.4	159.2	159.2
57.5°	150.3	147.0	144.7	143.6	142.5	140.3	135.8	134.7	130.3	129.1	128.0
60°	125.8	122.5	119.1	116.9	115.8	112.4	108.0	105.8	103.5	100.2	96.9
62.5°	102.4	99.1	94.6	93.5	91.3	88.0	84.6	81.3	79.0	75.7	73.5
65°	82.4	79.0	75.7	73.5	71.3	67.9	64.6	61.2	59.0	57.9	56.8
67.5°	66.8	62.3	59.0	57.9	55.7	53.4	50.1	49.0	46.8	46.8	46.8
70°	52.3	49.0	45.6	44.5	43.4	41.2	39.0	39.0	39.0	39.0	39.0
72.5°	39.0	36.7	33.4	32.3	31.2	30.1	27.8	28.9	27.8	27.8	27.8
75°	24.5	22.3	20.0	18.9	17.8	16.7	15.6	14.5	13.4	12.2	12.2
77.5°	13.4	11.1	10.0	8.9	8.9	7.8	6.7	6.7	5.6	5.6	5.6
80°	7.8	6.7	5.6	4.5	4.5	3.3	3.3	3.3	3.3	2.2	2.2
82.5°	4.5	3.3	2.2	2.2	2.2	2.2	1.1	1.1	1.1	1.1	1.1
85°	2.2	2.2	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	857.3	857.3	857.3	857.3	857.3	857.3	857.3	857.3
2.5°	850.6	853.9	850.6	853.9	853.9	853.9	853.9	850.6
5°	845.0	847.3	843.9	846.1	847.3	846.1	846.1	842.8
7.5°	835.0	837.2	833.9	837.2	838.4	837.2	836.1	833.9
10°	825.0	826.1	822.8	825.0	827.2	827.2	826.1	822.8
12.5°	809.4	812.7	809.4	811.6	813.9	815.0	815.0	811.6
15°	791.6	797.2	794.9	798.3	801.6	802.7	802.7	801.6
17.5°	773.8	779.3	776.0	781.6	784.9	787.1	788.3	786.0
20°	748.2	754.9	752.6	757.1	761.5	764.9	764.9	761.5
22.5°	714.8	723.7	722.6	725.9	731.5	732.6	734.8	732.6
25°	678.0	684.7	683.6	686.9	693.6	693.6	694.7	694.7
27.5°	635.7	642.4	641.3	643.5	648.0	649.1	650.2	648.0
30°	590.1	593.4	593.4	596.8	600.1	601.2	601.2	597.9
32.5°	540.0	544.4	546.7	545.5	548.9	551.1	550.0	550.0
35°	494.3	495.4	496.6	497.7	498.8	501.0	498.8	497.7
37.5°	445.3	448.7	446.5	448.7	450.9	449.8	448.7	448.7
40°	400.8	401.9	399.7	401.9	403.0	403.0	403.0	400.8
42.5°	356.3	358.5	356.3	358.5	358.5	358.5	358.5	357.4
45°	311.7	314.0	314.0	315.1	315.1	314.0	314.0	314.0
47.5°	270.5	272.8	270.5	272.8	273.9	271.7	271.7	271.7
50°	231.6	230.5	230.5	231.6	231.6	231.6	231.6	230.5
52.5°	191.5	192.6	192.6	192.6	193.7	192.6	193.7	193.7
55°	157.0	157.0	157.0	158.1	157.0	157.0	158.1	159.2
57.5°	125.8	124.7	123.6	123.6	124.7	123.6	123.6	123.6
60°	96.9	95.7	94.6	94.6	94.6	94.6	94.6	93.5
62.5°	72.4	72.4	72.4	73.5	73.5	73.5	73.5	74.6
65°	57.9	57.9	57.9	57.9	57.9	57.9	57.9	59.0
67.5°	46.8	46.8	46.8	47.9	47.9	47.9	47.9	47.9
70°	39.0	39.0	40.1	39.0	40.1	40.1	40.1	40.1
72.5°	26.7	26.7	26.7	26.7	26.7	25.6	26.7	25.6
75°	11.1	11.1	11.1	11.1	11.1	11.1	11.1	10.0
77.5°	4.5	4.5	4.5	4.5	4.5	4.5	4.5	4.5
80°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
82.5°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.1	1.1	1.1	1.1	1.1	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)