

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: P252367

Luminaire Tested: **LD6B20D010 EU6B10209024 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252367
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 EU6B10209024 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1332.0 lumens
Efficiency: N/A
Efficacy: 64.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

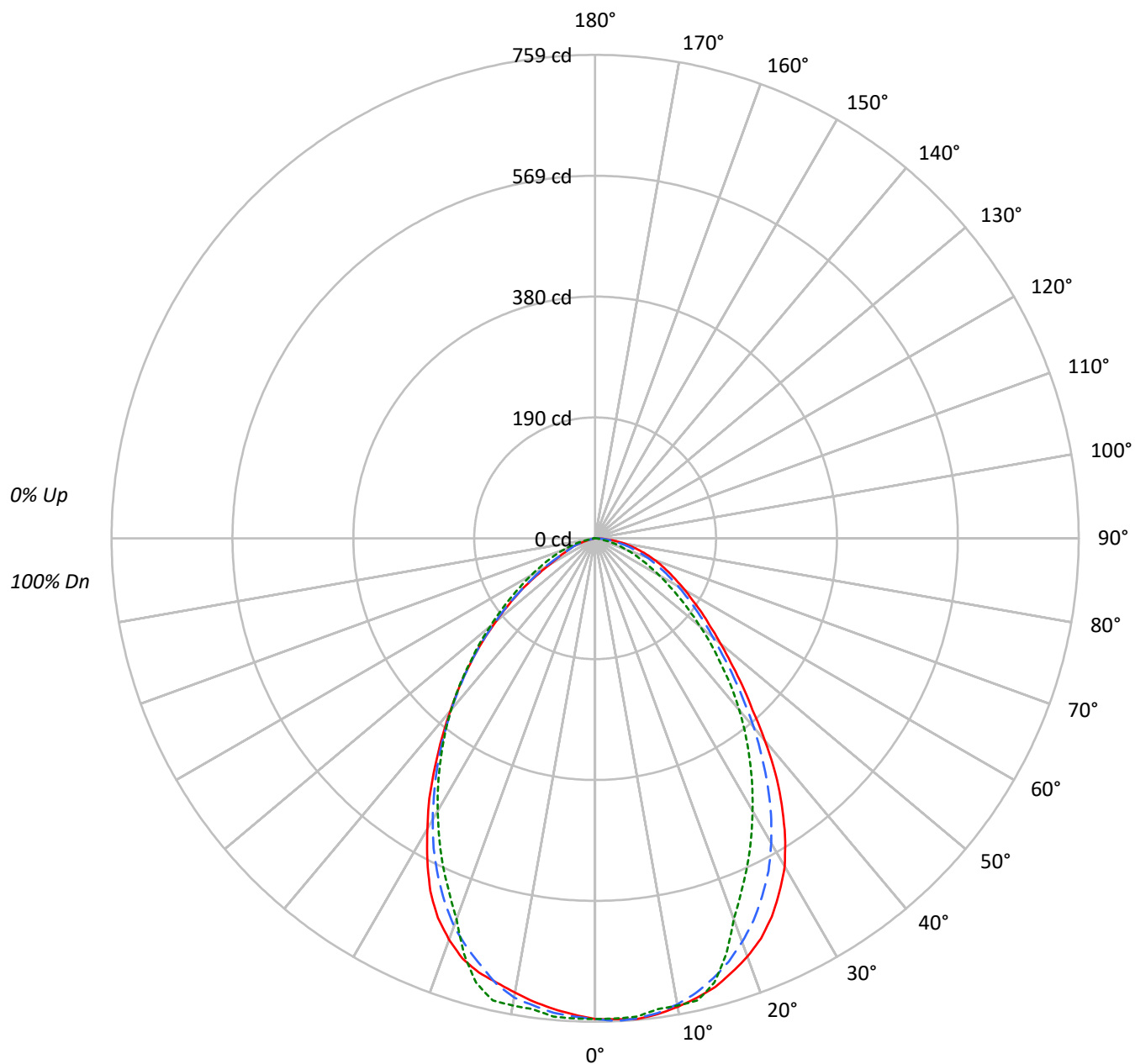
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	49237	49237	49237
5°	49622	49360	48593
10°	49480	49347	47983
15°	49252	48792	47664
20°	48523	44163	46544
25°	47201	40715	44026
30°	44823	37215	39648
35°	40674	33642	34892
40°	35310	29970	30055
45°	30115	25769	25502
50°	26064	21791	20594
55°	23306	18176	15947
60°	21229	15097	10739
65°	19821	12412	8012
70°	18884	10091	6734
75°	17796	7159	2218
80°	16944	3682	751
85°	13923	2171	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	5.4
10°-20°	199.3	15.0
20°-30°	275.1	20.7
30°-40°	280.0	21.0
40°-50°	225.0	16.9
50°-60°	149.6	11.2
60°-70°	85.3	6.4
70°-80°	38.3	2.9
80°-90°	8.1	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°	545.7	41.0
0°-40°	825.7	62.0
0°-60°	1200.4	90.1
0°-90°	1332.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1332.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	755	755	755	755	755	
5°	758	757	754	748	742	72
15°	729	716	722	694	706	205
25°	656	620	566	584	612	300
35°	511	472	422	430	438	317
45°	326	307	279	276	276	253
55°	205	191	160	142	140	184
65°	128	115	80	52	52	128
75°	71	59	28	12	9	75
85°	19	13	3	1	0	22
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°	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7
2.5°	755.7	759.6	758.6	757.7	758.6	757.7	755.7	755.7	753.7	753.7	758.6
5°	757.7	759.6	758.6	757.7	757.7	758.6	754.7	754.7	752.8	751.8	756.7
7.5°	753.7	756.7	754.7	754.7	753.7	754.7	750.8	750.8	747.9	746.9	751.8
10°	746.9	750.8	748.8	748.8	748.8	746.9	744.9	743.9	741.0	740.0	743.0
12.5°	739.0	742.0	741.0	739.0	739.0	739.0	735.1	734.1	730.2	728.3	731.2
15°	729.2	731.2	730.2	729.2	727.3	727.3	723.4	721.4	717.5	713.6	715.5
17.5°	714.5	717.5	715.5	714.5	711.6	711.6	707.7	705.7	699.8	695.9	696.9
20°	698.9	699.8	698.9	696.9	694.0	693.0	689.1	685.1	680.2	675.3	674.3
22.5°	680.2	681.2	678.3	676.3	673.4	672.4	667.5	664.5	656.7	650.8	649.8
25°	655.7	656.7	656.7	651.8	649.8	647.9	643.0	638.1	631.2	623.4	620.4
27.5°	626.3	629.3	627.3	622.4	618.5	617.5	612.6	608.7	599.9	593.0	589.1
30°	595.0	594.0	593.0	590.1	584.2	583.2	578.3	573.4	566.5	557.7	552.8
32.5°	554.8	554.8	553.8	550.8	545.0	543.0	539.1	533.2	525.4	518.5	513.6
35°	510.7	511.6	510.7	504.8	500.9	498.9	496.9	490.1	483.2	475.4	471.5
37.5°	464.6	461.7	462.6	457.7	452.8	454.8	448.9	446.0	438.1	432.3	428.3
40°	414.6	416.6	412.6	410.7	407.7	404.8	404.8	399.9	396.0	389.1	387.2
42.5°	365.6	368.5	367.6	365.6	361.7	362.7	357.8	355.8	350.9	348.0	345.0
45°	326.4	326.4	326.4	324.4	323.5	321.5	318.6	315.6	312.7	308.8	306.8
47.5°	288.2	288.2	289.1	287.2	285.2	284.2	282.3	282.3	277.4	273.5	271.5
50°	256.8	256.8	256.8	254.8	252.9	252.9	250.9	249.0	246.0	243.1	241.1
52.5°	228.4	228.4	228.4	226.4	225.4	224.5	223.5	222.5	218.6	216.6	214.7
55°	204.9	203.9	203.9	202.9	200.9	200.9	200.0	198.0	195.1	192.1	191.1
57.5°	181.3	182.3	181.3	181.3	179.4	179.4	177.4	176.4	173.5	171.5	169.6
60°	162.7	162.7	162.7	161.7	159.8	160.7	158.8	157.8	154.9	151.9	150.0
62.5°	144.1	145.1	145.1	144.1	142.1	142.1	141.1	140.2	137.2	134.3	131.3
65°	128.4	128.4	128.4	127.4	126.4	126.4	125.5	124.5	121.5	117.6	114.7
67.5°	113.7	112.7	112.7	112.7	111.7	110.8	109.8	108.8	105.9	102.9	99.0
70°	99.0	99.0	99.0	98.0	96.1	97.0	96.1	95.1	92.1	89.2	86.3
72.5°	85.3	85.3	84.3	83.3	83.3	82.3	82.3	81.4	78.4	74.5	71.6
75°	70.6	70.6	70.6	70.6	68.6	69.6	67.6	66.7	64.7	61.8	58.8
77.5°	57.8	57.8	57.8	56.8	55.9	55.9	54.9	53.9	51.0	49.0	45.1
80°	45.1	45.1	45.1	45.1	44.1	43.1	42.1	41.2	39.2	36.3	33.3
82.5°	33.3	33.3	32.3	32.3	32.3	31.4	30.4	29.4	27.4	25.5	23.5
85°	18.6	19.6	19.6	17.6	18.6	17.6	17.6	15.7	15.7	13.7	12.7
87.5°	6.9	5.9	5.9	5.9	5.9	5.9	5.9	4.9	4.9	4.9	3.9
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°	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7
2.5°	754.7	753.7	757.7	757.7	751.8	754.7	755.7	753.7	753.7	754.7	751.8
5°	752.8	750.8	754.7	755.7	749.8	752.8	753.7	751.8	752.8	753.7	749.8
7.5°	745.9	745.9	748.8	749.8	743.9	746.9	746.9	744.9	745.9	745.9	743.0
10°	739.0	736.1	739.0	739.0	734.1	735.1	737.1	736.1	740.0	744.9	744.9
12.5°	726.3	723.4	728.3	728.3	725.3	729.2	734.1	737.1	741.0	743.0	737.1
15°	710.6	711.6	720.4	727.3	724.3	730.2	735.1	733.2	728.3	722.4	713.6
17.5°	690.0	687.1	694.9	698.9	694.9	696.9	700.8	696.9	689.1	684.2	672.4
20°	666.5	658.7	658.7	656.7	649.8	649.8	648.9	642.0	639.1	636.1	631.2
22.5°	640.0	631.2	628.3	622.4	616.5	615.5	612.6	605.7	601.8	599.9	594.0
25°	609.7	601.8	596.9	591.0	582.2	580.3	577.3	570.5	568.5	565.6	560.7
27.5°	578.3	568.5	561.6	555.8	547.9	546.9	541.0	536.1	532.2	530.3	526.3
30°	542.0	531.2	526.3	518.5	512.6	510.7	505.8	498.9	496.0	494.0	491.1
32.5°	501.8	493.0	488.1	481.3	473.4	474.4	468.5	462.6	460.7	458.7	455.8
35°	462.6	453.8	447.9	442.1	437.2	435.2	431.3	426.4	423.4	422.4	420.5
37.5°	419.5	412.6	407.7	401.9	397.9	396.0	394.0	389.1	387.2	387.2	383.2
40°	377.4	371.5	367.6	364.6	359.7	358.7	356.8	353.8	352.9	351.9	348.9
42.5°	339.1	331.3	328.4	326.4	323.5	321.5	320.5	318.6	317.6	316.6	313.7
45°	302.9	296.0	293.1	291.1	288.2	287.2	286.2	283.3	281.3	279.3	278.4
47.5°	267.6	262.7	261.7	256.8	254.8	252.9	250.9	249.0	248.0	247.0	243.1
50°	237.2	234.3	229.4	226.4	224.5	223.5	219.6	216.6	215.6	214.7	211.7
52.5°	209.8	205.8	202.9	198.0	197.0	195.1	193.1	189.2	187.2	186.2	183.3
55°	185.3	182.3	178.4	174.5	171.5	170.5	167.6	163.7	161.7	159.8	157.8
57.5°	164.7	159.8	155.8	151.9	150.0	147.0	144.1	142.1	139.2	136.2	133.3
60°	145.1	141.1	136.2	132.3	130.4	128.4	124.5	121.5	118.6	115.7	112.7
62.5°	126.4	122.5	117.6	113.7	111.7	109.8	105.9	102.9	100.0	97.0	93.1
65°	109.8	105.9	101.9	98.0	96.1	94.1	90.2	86.3	83.3	80.4	76.5
67.5°	96.1	91.2	87.2	83.3	81.4	79.4	75.5	72.5	68.6	65.7	61.8
70°	81.4	77.4	74.5	70.6	68.6	66.7	62.7	58.8	55.9	52.9	49.0
72.5°	68.6	63.7	60.8	56.8	54.9	53.9	50.0	47.0	44.1	40.2	37.2
75°	54.9	51.0	47.0	44.1	42.1	41.2	37.2	34.3	31.4	28.4	25.5
77.5°	42.1	39.2	35.3	32.3	30.4	29.4	25.5	22.5	19.6	17.6	14.7
80°	31.4	27.4	25.5	22.5	21.6	19.6	17.6	14.7	12.7	9.8	7.8
82.5°	21.6	18.6	16.7	14.7	13.7	12.7	10.8	8.8	6.9	5.9	4.9
85°	11.8	9.8	8.8	7.8	6.9	6.9	5.9	4.9	3.9	2.9	2.0
87.5°	3.9	2.9	2.9	2.9	2.9	2.0	2.0	2.0	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7
2.5°	753.7	753.7	753.7	752.8	752.8	752.8	751.8	755.7	751.8	750.8	753.7
5°	752.8	750.8	750.8	750.8	750.8	749.8	748.8	750.8	747.9	746.9	746.9
7.5°	746.9	745.9	745.9	744.9	743.9	743.0	742.0	743.0	740.0	739.0	739.0
10°	747.9	745.9	745.9	743.0	741.0	738.1	735.1	736.1	732.2	729.2	729.2
12.5°	736.1	731.2	728.3	725.3	723.4	722.4	718.5	720.4	716.5	715.5	715.5
15°	709.6	703.8	698.9	696.9	696.9	694.9	692.0	695.9	694.0	694.9	699.8
17.5°	668.5	665.5	662.6	661.6	662.6	664.5	666.5	672.4	672.4	675.3	680.2
20°	632.2	630.2	632.2	632.2	633.2	637.1	641.0	645.9	647.9	650.8	657.7
22.5°	596.9	596.9	598.9	601.8	600.8	607.7	608.7	617.5	617.5	623.4	629.3
25°	562.6	562.6	564.6	565.6	567.5	571.4	575.4	582.2	584.2	590.1	595.0
27.5°	529.3	528.3	528.3	529.3	531.2	536.1	538.1	545.9	548.9	552.8	557.7
30°	492.0	491.1	493.0	495.0	494.0	498.9	501.8	507.7	509.7	513.6	517.5
32.5°	456.8	456.8	456.8	458.7	458.7	462.6	462.6	469.5	469.5	472.4	476.4
35°	420.5	420.5	421.5	422.4	423.4	424.4	425.4	429.3	430.3	431.3	433.2
37.5°	386.2	385.2	386.2	386.2	384.2	388.1	388.1	392.1	389.1	392.1	393.0
40°	350.9	350.9	349.9	349.9	349.9	351.9	349.9	352.9	350.9	352.9	351.9
42.5°	314.6	314.6	312.7	314.6	313.7	313.7	313.7	315.6	312.7	314.6	315.6
45°	278.4	277.4	277.4	276.4	276.4	276.4	277.4	277.4	276.4	278.4	278.4
47.5°	243.1	242.1	242.1	242.1	242.1	243.1	240.1	242.1	240.1	240.1	240.1
50°	212.7	211.7	210.7	209.8	208.8	208.8	207.8	207.8	205.8	204.9	203.9
52.5°	183.3	182.3	180.3	180.3	179.4	178.4	175.4	175.4	172.5	171.5	171.5
55°	156.8	153.9	152.9	150.9	150.9	149.0	147.0	145.1	142.1	140.2	140.2
57.5°	132.3	129.4	127.4	126.4	125.5	123.5	119.6	118.6	114.7	113.7	112.7
60°	110.8	107.8	104.9	102.9	101.9	99.0	95.1	93.1	91.2	88.2	85.3
62.5°	90.2	87.2	83.3	82.3	80.4	77.4	74.5	71.6	69.6	66.7	64.7
65°	72.5	69.6	66.7	64.7	62.7	59.8	56.8	53.9	51.9	51.0	50.0
67.5°	58.8	54.9	51.9	51.0	49.0	47.0	44.1	43.1	41.2	41.2	41.2
70°	46.1	43.1	40.2	39.2	38.2	36.3	34.3	34.3	34.3	34.3	34.3
72.5°	34.3	32.3	29.4	28.4	27.4	26.5	24.5	25.5	24.5	24.5	24.5
75°	21.6	19.6	17.6	16.7	15.7	14.7	13.7	12.7	11.8	10.8	10.8
77.5°	11.8	9.8	8.8	7.8	7.8	6.9	5.9	5.9	4.9	4.9	4.9
80°	6.9	5.9	4.9	3.9	3.9	2.9	2.9	2.9	2.9	2.0	2.0
82.5°	3.9	2.9	2.0	2.0	2.0	2.0	1.0	1.0	1.0	1.0	1.0
85°	2.0	2.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	0.0
87.5°	1.0	1.0	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°	754.7	754.7	754.7	754.7	754.7	754.7	754.7	754.7
2.5°	748.8	751.8	748.8	751.8	751.8	751.8	751.8	748.8
5°	743.9	745.9	743.0	744.9	745.9	744.9	744.9	742.0
7.5°	735.1	737.1	734.1	737.1	738.1	737.1	736.1	734.1
10°	726.3	727.3	724.3	726.3	728.3	728.3	727.3	724.3
12.5°	712.6	715.5	712.6	714.5	716.5	717.5	717.5	714.5
15°	696.9	701.8	699.8	702.8	705.7	706.7	706.7	705.7
17.5°	681.2	686.1	683.2	688.1	691.0	693.0	694.0	692.0
20°	658.7	664.5	662.6	666.5	670.4	673.4	673.4	670.4
22.5°	629.3	637.1	636.1	639.1	644.0	644.9	646.9	644.9
25°	596.9	602.8	601.8	604.8	610.6	610.6	611.6	611.6
27.5°	559.7	565.6	564.6	566.5	570.5	571.4	572.4	570.5
30°	519.5	522.4	522.4	525.4	528.3	529.3	529.3	526.3
32.5°	475.4	479.3	481.3	480.3	483.2	485.2	484.2	484.2
35°	435.2	436.2	437.2	438.1	439.1	441.1	439.1	438.1
37.5°	392.1	395.0	393.0	395.0	397.0	396.0	395.0	395.0
40°	352.9	353.8	351.9	353.8	354.8	354.8	354.8	352.9
42.5°	313.7	315.6	313.7	315.6	315.6	315.6	315.6	314.6
45°	274.4	276.4	276.4	277.4	277.4	276.4	276.4	276.4
47.5°	238.2	240.1	238.2	240.1	241.1	239.2	239.2	239.2
50°	203.9	202.9	202.9	203.9	203.9	203.9	203.9	202.9
52.5°	168.6	169.6	169.6	169.6	170.5	169.6	170.5	170.5
55°	138.2	138.2	138.2	139.2	138.2	138.2	139.2	140.2
57.5°	110.8	109.8	108.8	108.8	109.8	108.8	108.8	108.8
60°	85.3	84.3	83.3	83.3	83.3	83.3	83.3	82.3
62.5°	63.7	63.7	63.7	64.7	64.7	64.7	64.7	65.7
65°	51.0	51.0	51.0	51.0	51.0	51.0	51.0	51.9
67.5°	41.2	41.2	41.2	42.1	42.1	42.1	42.1	42.1
70°	34.3	34.3	35.3	34.3	35.3	35.3	35.3	35.3
72.5°	23.5	23.5	23.5	23.5	23.5	22.5	23.5	22.5
75°	9.8	9.8	9.8	9.8	9.8	9.8	9.8	8.8
77.5°	3.9	3.9	3.9	3.9	3.9	3.9	3.9	3.9
80°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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)