

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: P252477

Luminaire Tested: **LD6B20D010 EU6B10209727 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252477
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: LD6B20D010 EU6B10209727 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1236.0 lumens
Efficiency: N/A
Efficacy: 59.4 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

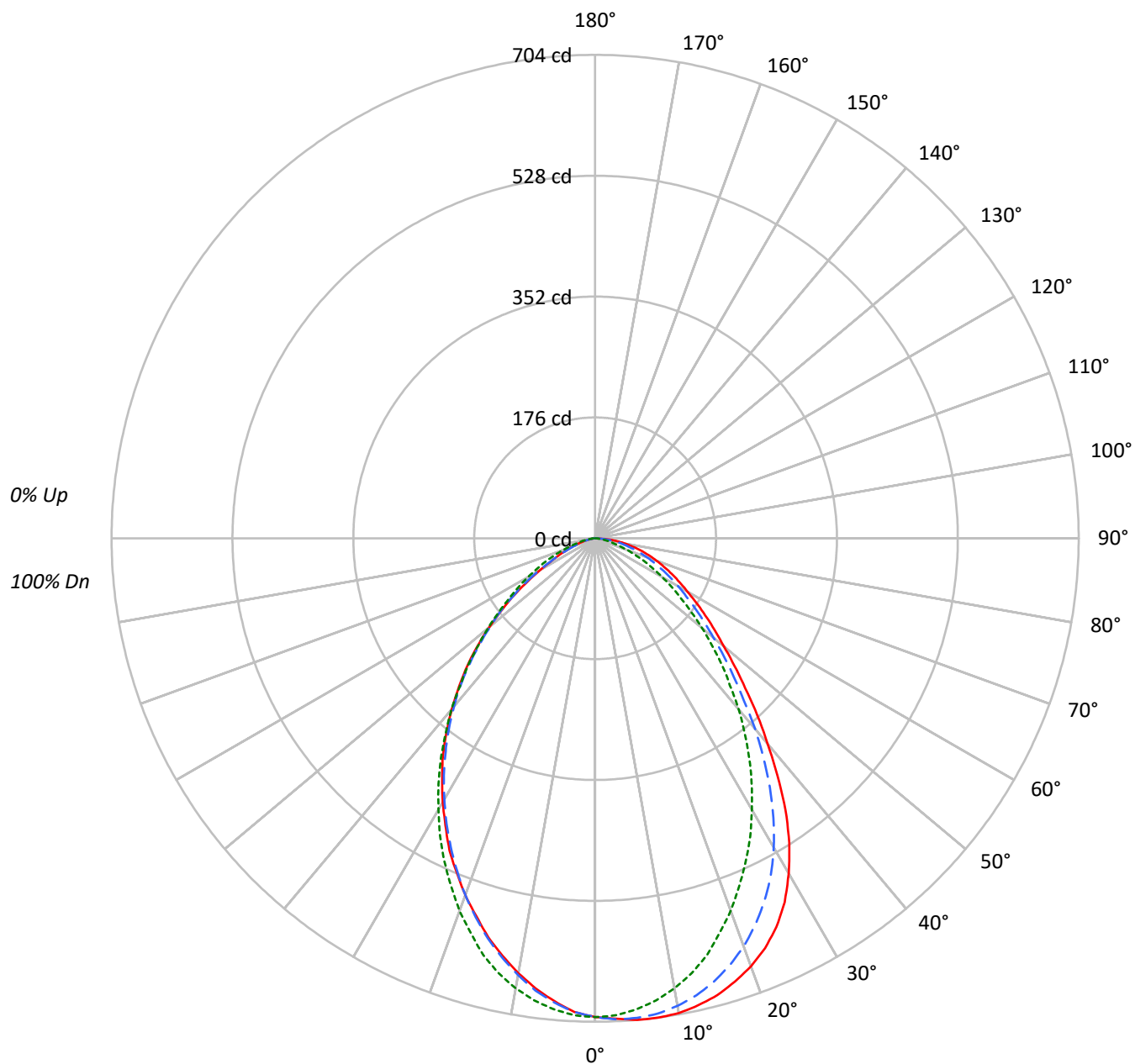
Input Watts (W): 20.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	30	10	50	30	10
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°	45492	45492	45492
5°	46111	45096	44330
10°	46512	44074	42603
15°	46509	42450	40620
20°	46058	40074	38393
25°	44969	37367	36115
30°	42458	34360	33418
35°	38492	31165	30774
40°	33240	27713	27628
45°	28500	24127	24302
50°	24775	20644	20350
55°	22248	17403	16299
60°	20225	14653	12004
65°	18988	12103	8815
70°	18102	9423	6466
75°	17342	6831	4386
80°	16381	4734	2893
85°	14522	2919	1422



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	65.2	5.3
10°-20°	178.6	14.5
20°-30°	248.0	20.1
30°-40°	256.9	20.8
40°-50°	211.1	17.1
50°-60°	145.1	11.7
60°-70°	83.4	6.7
70°-80°	38.3	3.1
80°-90°	9.3	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°	491.9	39.8
0°-40°	748.7	60.6
0°-60°	1104.9	89.4
0°-90°	1236.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1236.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	697	697	697	697	697	
5°	704	701	689	679	677	67
15°	689	668	628	603	601	194
25°	625	583	519	497	502	286
35°	483	444	391	380	386	300
45°	309	286	262	259	263	241
55°	196	177	153	144	143	176
65°	123	108	78	55	57	122
75°	69	54	27	17	17	73
85°	19	14	4	2	2	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°	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3
2.5°	700.2	706.0	702.1	701.2	703.1	703.1	703.1	700.2	702.1	699.2	701.2
5°	704.1	708.9	705.0	703.1	705.0	706.0	703.1	701.2	704.1	700.2	701.2
7.5°	704.1	708.9	705.0	704.1	705.0	705.0	704.1	700.2	702.1	698.3	698.3
10°	702.1	706.0	702.1	700.2	701.2	700.2	700.2	695.4	696.3	691.5	691.5
12.5°	696.3	701.2	696.3	694.4	694.4	694.4	691.5	687.6	688.6	682.8	681.8
15°	688.6	692.4	687.6	685.7	685.7	684.7	682.8	676.9	676.9	671.1	668.2
17.5°	676.9	680.8	676.9	674.0	673.1	671.1	669.2	663.4	661.5	654.7	651.8
20°	663.4	666.3	662.4	659.5	657.6	655.6	651.8	646.0	644.0	637.2	632.4
22.5°	646.0	649.8	644.0	641.1	639.2	636.3	632.4	626.6	623.7	615.0	609.2
25°	624.7	626.6	621.7	618.8	615.0	613.0	610.1	602.4	599.5	589.8	583.0
27.5°	597.5	599.5	593.7	591.7	586.9	584.9	581.1	574.3	570.4	560.7	554.0
30°	563.6	565.6	561.7	558.8	554.9	551.1	548.1	541.4	535.6	525.9	520.1
32.5°	525.9	528.8	524.9	521.0	514.2	515.2	510.4	503.6	498.8	490.0	483.3
35°	483.3	485.2	480.4	479.4	475.5	471.6	466.8	462.0	459.0	449.4	443.6
37.5°	435.8	440.6	435.8	431.9	430.0	427.1	424.2	417.4	415.5	409.7	401.9
40°	390.3	393.2	390.3	386.4	383.5	383.5	379.6	375.8	370.9	365.1	362.2
42.5°	349.6	347.7	346.7	344.8	340.9	339.9	339.0	334.1	331.2	325.4	320.6
45°	308.9	309.9	308.0	307.0	304.1	302.2	300.2	296.3	295.4	289.6	285.7
47.5°	275.0	274.1	272.1	272.1	270.2	268.3	266.3	263.4	262.5	257.6	253.7
50°	244.1	245.0	244.1	243.1	240.2	239.2	237.3	235.3	233.4	228.6	224.7
52.5°	218.9	217.9	216.9	216.9	214.0	213.1	211.1	209.2	207.2	202.4	199.5
55°	195.6	195.6	194.7	193.7	190.8	189.8	188.8	186.9	184.0	180.1	177.2
57.5°	174.3	174.3	173.4	172.4	170.4	170.4	168.5	166.6	164.6	160.8	156.9
60°	155.0	155.9	155.0	154.0	152.0	152.0	151.1	148.2	147.2	142.4	139.5
62.5°	138.5	138.5	138.5	137.5	136.6	134.6	134.6	131.7	129.8	126.9	123.0
65°	123.0	123.0	123.0	122.0	120.1	119.1	118.2	116.2	114.3	111.4	107.5
67.5°	108.5	108.5	108.5	107.5	105.6	104.6	103.6	102.7	99.8	96.8	93.0
70°	94.9	94.9	93.9	93.0	92.0	91.0	90.1	88.1	86.2	82.3	79.4
72.5°	81.4	81.4	81.4	79.4	78.4	78.4	76.5	75.5	73.6	69.7	66.8
75°	68.8	67.8	67.8	66.8	65.9	64.9	63.9	62.9	60.0	58.1	54.2
77.5°	56.2	56.2	55.2	54.2	54.2	53.3	52.3	50.4	49.4	46.5	43.6
80°	43.6	43.6	43.6	43.6	42.6	41.6	41.6	39.7	38.7	35.8	33.9
82.5°	32.9	32.0	32.0	32.0	31.0	30.0	30.0	29.1	28.1	26.1	24.2
85°	19.4	18.4	18.4	18.4	17.4	17.4	16.5	16.5	15.5	13.6	13.6
87.5°	5.8	5.8	6.8	6.8	5.8	5.8	5.8	5.8	5.8	4.8	4.8
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°	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3
2.5°	699.2	702.1	698.3	697.3	701.2	699.2	698.3	696.3	697.3	695.4	692.4
5°	698.3	702.1	697.3	694.4	699.2	696.3	694.4	692.4	692.4	688.6	686.6
7.5°	695.4	697.3	692.4	689.5	692.4	689.5	687.6	684.7	683.7	678.9	676.0
10°	687.6	689.5	683.7	679.9	682.8	678.9	676.0	673.1	671.1	665.3	661.5
12.5°	676.9	677.9	671.1	666.3	668.2	665.3	660.5	656.6	654.7	648.9	644.0
15°	662.4	663.4	655.6	648.9	650.8	646.9	641.1	637.2	634.3	628.5	621.7
17.5°	645.0	644.0	635.3	628.5	629.5	624.7	618.8	613.0	609.2	602.4	597.5
20°	625.6	622.7	613.0	605.3	606.3	600.4	593.7	587.9	583.0	577.2	570.4
22.5°	601.4	597.5	588.8	579.1	580.1	575.3	565.6	560.7	555.9	548.1	542.3
25°	575.3	569.5	560.7	551.1	551.1	545.2	537.5	531.7	526.8	519.1	512.3
27.5°	544.3	541.4	529.7	522.0	521.0	515.2	508.4	501.7	495.8	489.1	482.3
30°	510.4	505.5	496.8	488.1	486.2	481.3	474.5	466.8	462.9	456.1	450.3
32.5°	474.5	469.7	460.0	451.3	450.3	446.5	440.6	432.9	429.0	424.2	420.3
35°	433.9	431.9	422.2	415.5	415.5	411.6	405.8	399.0	396.1	391.3	386.4
37.5°	395.1	392.2	383.5	377.7	377.7	372.9	367.0	364.1	361.2	357.4	354.5
40°	354.5	352.5	345.7	339.9	340.9	337.0	333.1	329.3	327.3	325.4	322.5
42.5°	316.7	314.7	309.9	305.1	305.1	302.2	298.3	295.4	293.4	290.5	289.6
45°	282.8	279.9	276.0	271.2	271.2	268.3	266.3	264.4	263.4	261.5	258.6
47.5°	249.9	247.9	244.1	239.2	239.2	239.2	235.3	232.4	232.4	230.5	229.5
50°	221.8	218.9	216.0	212.1	212.1	210.2	207.2	204.3	204.3	203.4	201.4
52.5°	195.6	193.7	189.8	185.9	185.9	184.0	181.1	180.1	179.2	176.3	175.3
55°	173.4	171.4	168.5	163.7	162.7	161.7	158.8	156.9	155.9	153.0	153.0
57.5°	153.0	151.1	146.2	143.3	142.4	140.4	137.5	135.6	134.6	132.7	130.7
60°	135.6	132.7	128.8	124.9	124.0	122.0	119.1	117.2	116.2	112.3	110.4
62.5°	119.1	116.2	112.3	108.5	107.5	105.6	101.7	99.8	97.8	93.9	92.0
65°	103.6	100.7	96.8	93.0	91.0	90.1	86.2	83.3	81.4	78.4	74.6
67.5°	89.1	86.2	82.3	77.5	77.5	74.6	71.7	68.8	65.9	62.9	60.0
70°	75.5	72.6	68.8	64.9	63.9	62.0	59.1	55.2	53.3	49.4	46.5
72.5°	62.9	60.0	56.2	52.3	51.3	49.4	46.5	42.6	39.7	36.8	33.9
75°	51.3	48.4	44.5	41.6	40.7	38.7	35.8	32.0	29.1	27.1	24.2
77.5°	40.7	37.8	34.9	32.0	31.0	29.1	26.1	24.2	21.3	19.4	16.5
80°	31.0	29.1	26.1	24.2	23.2	21.3	19.4	16.5	14.5	12.6	11.6
82.5°	22.3	20.3	18.4	15.5	15.5	13.6	12.6	10.7	8.7	7.7	6.8
85°	12.6	10.7	9.7	8.7	7.7	7.7	6.8	5.8	4.8	3.9	3.9
87.5°	3.9	3.9	2.9	2.9	2.9	2.9	1.9	1.9	1.9	1.9	1.9
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3
2.5°	692.4	693.4	691.5	693.4	691.5	692.4	690.5	692.4	690.5	692.4	688.6
5°	685.7	685.7	682.8	684.7	682.8	683.7	679.9	680.8	678.9	680.8	676.9
7.5°	674.0	675.0	670.2	672.1	669.2	669.2	666.3	667.3	664.4	665.3	662.4
10°	660.5	659.5	654.7	656.6	652.7	652.7	649.8	649.8	646.0	646.9	643.1
12.5°	641.1	640.1	634.3	636.3	632.4	632.4	629.5	629.5	625.6	627.6	623.7
15°	618.8	617.9	612.1	613.0	609.2	609.2	605.3	606.3	603.3	605.3	601.4
17.5°	593.7	592.7	586.9	587.9	583.0	584.0	581.1	580.1	578.2	579.1	576.2
20°	567.5	565.6	559.8	560.7	558.8	555.9	554.0	554.9	553.0	554.9	552.0
22.5°	540.4	536.5	531.7	531.7	529.7	529.7	526.8	528.8	524.9	527.8	525.9
25°	509.4	506.5	502.6	504.6	500.7	500.7	497.8	498.8	496.8	498.8	496.8
27.5°	479.4	477.4	471.6	473.6	470.7	471.6	468.7	469.7	468.7	470.7	468.7
30°	447.4	446.5	442.6	442.6	441.6	440.6	439.7	439.7	438.7	441.6	439.7
32.5°	417.4	414.5	410.6	413.5	408.7	411.6	409.7	411.6	409.7	411.6	410.6
35°	386.4	385.4	380.6	381.6	380.6	380.6	379.6	379.6	379.6	382.5	382.5
37.5°	353.5	352.5	349.6	350.6	348.6	347.7	347.7	349.6	349.6	351.5	351.5
40°	321.5	322.5	319.6	319.6	318.6	318.6	318.6	320.6	319.6	321.5	320.6
42.5°	289.6	289.6	286.7	287.6	286.7	287.6	287.6	289.6	289.6	290.5	289.6
45°	259.5	259.5	258.6	259.5	257.6	258.6	257.6	259.5	258.6	259.5	259.5
47.5°	229.5	229.5	229.5	228.6	228.6	228.6	228.6	228.6	227.6	229.5	228.6
50°	201.4	202.4	201.4	201.4	200.5	201.4	200.5	200.5	198.5	199.5	199.5
52.5°	176.3	176.3	174.3	174.3	174.3	173.4	173.4	173.4	172.4	172.4	170.4
55°	152.0	152.0	150.1	150.1	149.1	148.2	147.2	147.2	144.3	144.3	141.4
57.5°	129.8	128.8	125.9	125.9	124.0	123.0	122.0	121.1	119.1	117.2	116.2
60°	109.4	107.5	105.6	104.6	102.7	100.7	98.8	96.8	94.9	93.9	93.0
62.5°	90.1	87.2	85.2	84.3	82.3	79.4	77.5	75.5	73.6	72.6	70.7
65°	72.6	69.7	66.8	65.9	63.9	62.0	59.1	57.1	55.2	54.2	54.2
67.5°	57.1	54.2	50.4	50.4	48.4	46.5	44.5	42.6	41.6	42.6	42.6
70°	42.6	40.7	37.8	36.8	34.9	32.9	32.0	32.0	32.0	32.9	32.0
72.5°	32.0	29.1	27.1	26.1	25.2	24.2	24.2	24.2	23.2	24.2	24.2
75°	22.3	20.3	18.4	18.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
77.5°	15.5	13.6	12.6	12.6	12.6	11.6	11.6	11.6	11.6	11.6	11.6
80°	9.7	9.7	8.7	8.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	5.8	5.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	2.9	2.9	2.9	2.9	2.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.0	1.0	1.0	1.0	1.0	1.9	1.9	1.9	1.9	1.9	1.9
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	697.3	697.3	697.3	697.3	697.3	697.3	697.3	697.3
2.5°	688.6	691.5	687.6	690.5	689.5	688.6	686.6	690.5
5°	676.9	677.9	674.0	677.9	676.9	675.0	673.1	676.9
7.5°	660.5	663.4	658.5	662.4	661.5	659.5	657.6	661.5
10°	642.1	645.0	641.1	644.0	644.0	642.1	639.2	643.1
12.5°	621.7	623.7	619.8	623.7	622.7	620.8	619.8	622.7
15°	599.5	602.4	598.5	601.4	600.4	599.5	598.5	601.4
17.5°	575.3	578.2	575.3	578.2	578.2	575.3	574.3	576.2
20°	551.1	553.0	550.1	553.0	552.0	552.0	550.1	553.0
22.5°	523.9	526.8	524.9	526.8	525.9	525.9	524.9	526.8
25°	496.8	499.7	496.8	499.7	498.8	498.8	496.8	501.7
27.5°	469.7	471.6	468.7	472.6	471.6	469.7	470.7	471.6
30°	440.6	442.6	440.6	443.6	443.6	443.6	441.6	443.6
32.5°	411.6	414.5	411.6	414.5	413.5	413.5	412.6	414.5
35°	382.5	383.5	381.6	384.5	384.5	385.4	383.5	386.4
37.5°	352.5	353.5	352.5	353.5	355.4	352.5	354.5	355.4
40°	321.5	323.5	322.5	323.5	323.5	324.4	323.5	324.4
42.5°	290.5	292.5	290.5	293.4	292.5	292.5	293.4	293.4
45°	258.6	261.5	259.5	261.5	262.5	261.5	261.5	263.4
47.5°	228.6	230.5	229.5	230.5	230.5	230.5	230.5	232.4
50°	198.5	199.5	199.5	200.5	200.5	201.4	199.5	200.5
52.5°	168.5	170.4	170.4	170.4	169.5	170.4	170.4	170.4
55°	141.4	142.4	140.4	142.4	142.4	141.4	141.4	143.3
57.5°	115.2	115.2	115.2	115.2	115.2	114.3	115.2	115.2
60°	91.0	92.0	91.0	91.0	91.0	91.0	90.1	92.0
62.5°	70.7	70.7	69.7	70.7	70.7	70.7	71.7	71.7
65°	55.2	56.2	55.2	56.2	56.2	56.2	56.2	57.1
67.5°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6
70°	32.9	32.9	32.9	33.9	32.9	32.9	32.9	33.9
72.5°	24.2	24.2	24.2	24.2	24.2	24.2	25.2	25.2
75°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
77.5°	11.6	11.6	11.6	12.6	11.6	12.6	11.6	11.6
80°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
82.5°	4.8	4.8	4.8	4.8	4.8	4.8	4.8	4.8
85°	1.9	1.9	1.9	1.9	1.9	1.9	1.9	1.9
87.5°	1.9	1.9	1.9	1.9	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



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— 0°-180° - - 45°-225° - - - 90°-270°













(END OF REPORT)