

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: P252356

Luminaire Tested: **LD6B15D010 EU6B10209030 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252356
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: LD6B15D010 EU6B10209030 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1133.0 lumens
Efficiency: N/A
Efficacy: 78.7 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

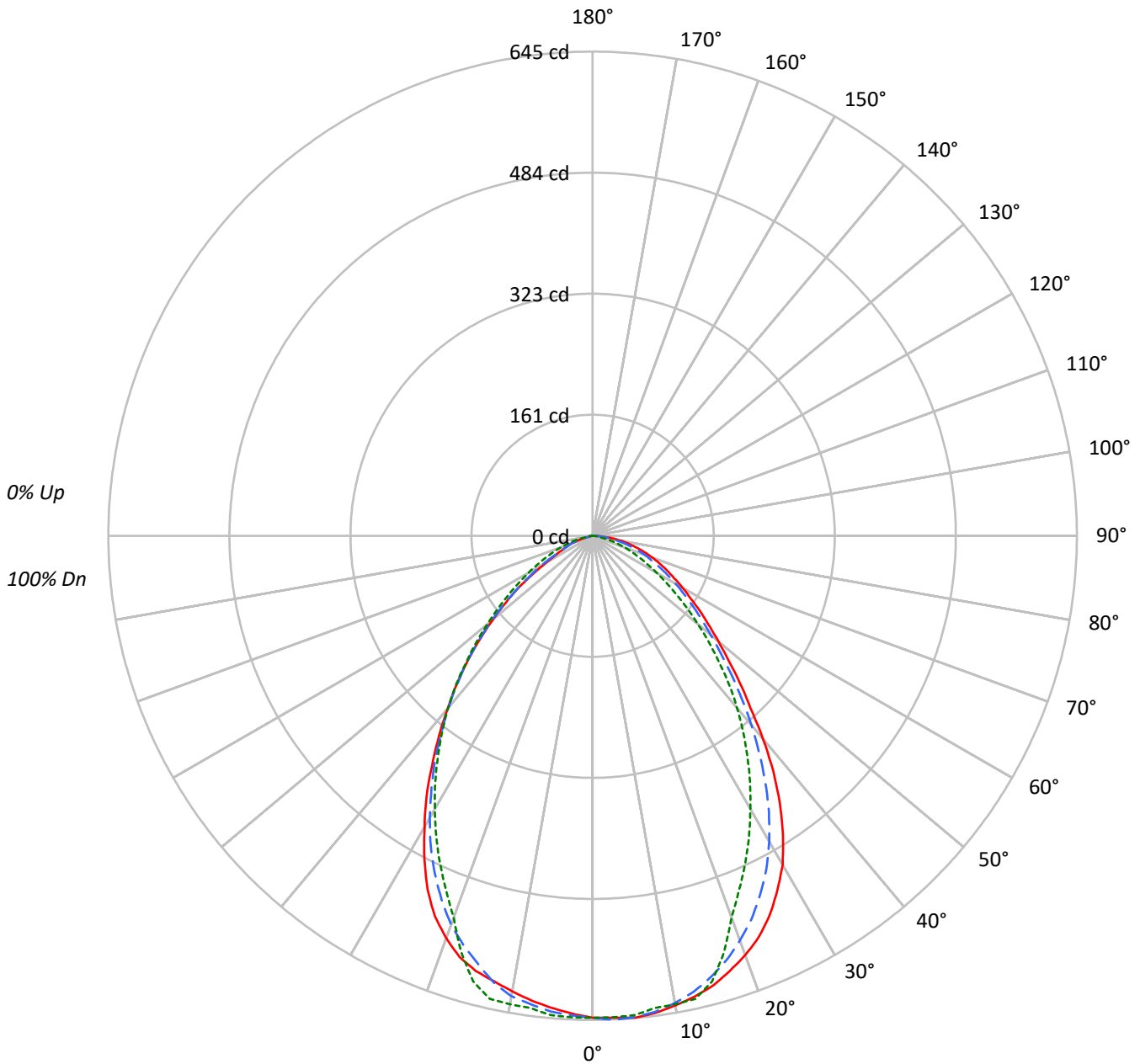
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					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	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88					88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77					77			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68					68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60					60			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54					54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48					48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44					44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40					40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36					36			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33					33			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41884	41884	41884
5°	42208	41986	41331
10°	42087	41974	40815
15°	41896	41505	40546
20°	41268	37567	39595
25°	40153	34632	37447
30°	38126	31655	33727
35°	34597	28616	29683
40°	30038	25490	25558
45°	25613	21922	21691
50°	22167	18533	17518
55°	19814	15458	13558
60°	18059	12839	9134
65°	16857	10559	6823
70°	16061	8584	5723
75°	15124	6100	1891
80°	14427	3118	639
85°	11827	1871	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.6	5.4
10°-20°	169.6	15.0
20°-30°	234.0	20.7
30°-40°	238.2	21.0
40°-50°	191.4	16.9
50°-60°	127.3	11.2
60°-70°	72.5	6.4
70°-80°	32.6	2.9
80°-90°	6.9	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°	464.2	41.0
0°-40°	702.4	62.0
0°-60°	1021.0	90.1
0°-90°	1133.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1133.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	642	642	642	642	642	
5°	644	644	641	636	631	61
15°	620	609	614	590	600	175
25°	558	528	481	497	520	256
35°	434	401	359	366	373	270
45°	278	261	238	235	235	215
55°	174	163	136	121	119	157
65°	109	98	68	44	44	109
75°	60	50	24	10	8	64
85°	16	11	2	1	0	19
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°	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
2.5°	642.8	646.1	645.3	644.5	645.3	644.5	642.8	642.8	641.1	641.1	645.3
5°	644.5	646.1	645.3	644.5	644.5	645.3	642.0	642.0	640.3	639.5	643.6
7.5°	641.1	643.6	642.0	642.0	641.1	642.0	638.6	638.6	636.1	635.3	639.5
10°	635.3	638.6	637.0	637.0	637.0	635.3	633.6	632.8	630.3	629.5	632.0
12.5°	628.6	631.1	630.3	628.6	628.6	628.6	625.3	624.5	621.1	619.5	622.0
15°	620.3	622.0	621.1	620.3	618.6	618.6	615.3	613.6	610.3	607.0	608.6
17.5°	607.8	610.3	608.6	607.8	605.3	605.3	601.9	600.3	595.3	591.9	592.8
20°	594.4	595.3	594.4	592.8	590.3	589.4	586.1	582.8	578.6	574.4	573.6
22.5°	578.6	579.4	576.9	575.3	572.8	571.9	567.8	565.3	558.6	553.6	552.8
25°	557.8	558.6	558.6	554.4	552.8	551.1	546.9	542.8	536.9	530.2	527.7
27.5°	532.7	535.3	533.6	529.4	526.1	525.2	521.1	517.7	510.2	504.4	501.1
30°	506.1	505.2	504.4	501.9	496.9	496.1	491.9	487.7	481.9	474.4	470.2
32.5°	471.9	471.9	471.1	468.6	463.6	461.9	458.5	453.5	446.9	441.0	436.9
35°	434.4	435.2	434.4	429.4	426.0	424.4	422.7	416.9	411.0	404.4	401.0
37.5°	395.2	392.7	393.5	389.3	385.2	386.8	381.8	379.3	372.7	367.7	364.3
40°	352.7	354.3	351.0	349.3	346.8	344.3	344.3	340.2	336.8	331.0	329.3
42.5°	311.0	313.5	312.6	311.0	307.6	308.5	304.3	302.6	298.5	296.0	293.5
45°	277.6	277.6	277.6	276.0	275.1	273.5	271.0	268.5	266.0	262.6	261.0
47.5°	245.1	245.1	245.9	244.3	242.6	241.8	240.1	240.1	235.9	232.6	230.9
50°	218.4	218.4	218.4	216.8	215.1	215.1	213.4	211.8	209.3	206.8	205.1
52.5°	194.3	194.3	194.3	192.6	191.8	190.9	190.1	189.3	185.9	184.3	182.6
55°	174.2	173.4	173.4	172.6	170.9	170.9	170.1	168.4	165.9	163.4	162.6
57.5°	154.2	155.1	154.2	154.2	152.6	152.6	150.9	150.1	147.6	145.9	144.2
60°	138.4	138.4	138.4	137.6	135.9	136.7	135.1	134.2	131.7	129.2	127.6
62.5°	122.6	123.4	123.4	122.6	120.9	120.9	120.1	119.2	116.7	114.2	111.7
65°	109.2	109.2	109.2	108.4	107.6	107.6	106.7	105.9	103.4	100.0	97.5
67.5°	96.7	95.9	95.9	95.9	95.0	94.2	93.4	92.5	90.0	87.5	84.2
70°	84.2	84.2	84.2	83.4	81.7	82.5	81.7	80.9	78.4	75.9	73.4
72.5°	72.5	72.5	71.7	70.9	70.9	70.0	70.0	69.2	66.7	63.4	60.9
75°	60.0	60.0	60.0	60.0	58.4	59.2	57.5	56.7	55.0	52.5	50.0
77.5°	49.2	49.2	49.2	48.4	47.5	47.5	46.7	45.9	43.4	41.7	38.4
80°	38.4	38.4	38.4	38.4	37.5	36.7	35.9	35.0	33.3	30.8	28.3
82.5°	28.3	28.3	27.5	27.5	27.5	26.7	25.8	25.0	23.3	21.7	20.0
85°	15.8	16.7	16.7	15.0	15.8	15.0	15.0	13.3	13.3	11.7	10.8
87.5°	5.8	5.0	5.0	5.0	5.0	5.0	5.0	4.2	4.2	4.2	3.3
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°	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
2.5°	642.0	641.1	644.5	644.5	639.5	642.0	642.8	641.1	641.1	642.0	639.5
5°	640.3	638.6	642.0	642.8	637.8	640.3	641.1	639.5	640.3	641.1	637.8
7.5°	634.5	634.5	637.0	637.8	632.8	635.3	635.3	633.6	634.5	634.5	632.0
10°	628.6	626.1	628.6	628.6	624.5	625.3	627.0	626.1	629.5	633.6	633.6
12.5°	617.8	615.3	619.5	619.5	617.0	620.3	624.5	627.0	630.3	632.0	627.0
15°	604.4	605.3	612.8	618.6	616.1	621.1	625.3	623.6	619.5	614.5	607.0
17.5°	586.9	584.4	591.1	594.4	591.1	592.8	596.1	592.8	586.1	581.9	571.9
20°	566.9	560.3	560.3	558.6	552.8	552.8	551.9	546.1	543.6	541.1	536.9
22.5°	544.4	536.9	534.4	529.4	524.4	523.6	521.1	515.2	511.9	510.2	505.2
25°	518.6	511.9	507.7	502.7	495.2	493.6	491.1	485.2	483.6	481.1	476.9
27.5°	491.9	483.6	477.7	472.7	466.1	465.2	460.2	456.0	452.7	451.0	447.7
30°	461.0	451.9	447.7	441.0	436.0	434.4	430.2	424.4	421.9	420.2	417.7
32.5°	426.9	419.4	415.2	409.4	402.7	403.5	398.5	393.5	391.9	390.2	387.7
35°	393.5	386.0	381.0	376.0	371.8	370.2	366.8	362.7	360.2	359.3	357.7
37.5°	356.8	351.0	346.8	341.8	338.5	336.8	335.2	331.0	329.3	329.3	326.0
40°	321.0	316.0	312.6	310.1	306.0	305.1	303.5	301.0	300.1	299.3	296.8
42.5°	288.5	281.8	279.3	277.6	275.1	273.5	272.6	271.0	270.1	269.3	266.8
45°	257.6	251.8	249.3	247.6	245.1	244.3	243.4	240.9	239.3	237.6	236.8
47.5°	227.6	223.4	222.6	218.4	216.8	215.1	213.4	211.8	210.9	210.1	206.8
50°	201.8	199.3	195.1	192.6	190.9	190.1	186.8	184.3	183.4	182.6	180.1
52.5°	178.4	175.1	172.6	168.4	167.6	165.9	164.2	160.9	159.2	158.4	155.9
55°	157.6	155.1	151.7	148.4	145.9	145.1	142.6	139.2	137.6	135.9	134.2
57.5°	140.1	135.9	132.6	129.2	127.6	125.1	122.6	120.9	118.4	115.9	113.4
60°	123.4	120.1	115.9	112.6	110.9	109.2	105.9	103.4	100.9	98.4	95.9
62.5°	107.6	104.2	100.0	96.7	95.0	93.4	90.0	87.5	85.0	82.5	79.2
65°	93.4	90.0	86.7	83.4	81.7	80.0	76.7	73.4	70.9	68.4	65.0
67.5°	81.7	77.5	74.2	70.9	69.2	67.5	64.2	61.7	58.4	55.9	52.5
70°	69.2	65.9	63.4	60.0	58.4	56.7	53.4	50.0	47.5	45.0	41.7
72.5°	58.4	54.2	51.7	48.4	46.7	45.9	42.5	40.0	37.5	34.2	31.7
75°	46.7	43.4	40.0	37.5	35.9	35.0	31.7	29.2	26.7	24.2	21.7
77.5°	35.9	33.3	30.0	27.5	25.8	25.0	21.7	19.2	16.7	15.0	12.5
80°	26.7	23.3	21.7	19.2	18.3	16.7	15.0	12.5	10.8	8.3	6.7
82.5°	18.3	15.8	14.2	12.5	11.7	10.8	9.2	7.5	5.8	5.0	4.2
85°	10.0	8.3	7.5	6.7	5.8	5.8	5.0	4.2	3.3	2.5	1.7
87.5°	3.3	2.5	2.5	2.5	2.5	1.7	1.7	1.7	0.8	0.8	0.8
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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
2.5°	641.1	641.1	641.1	640.3	640.3	640.3	639.5	642.8	639.5	638.6	641.1
5°	640.3	638.6	638.6	638.6	638.6	637.8	637.0	638.6	636.1	635.3	635.3
7.5°	635.3	634.5	634.5	633.6	632.8	632.0	631.1	632.0	629.5	628.6	628.6
10°	636.1	634.5	634.5	632.0	630.3	627.8	625.3	626.1	622.8	620.3	620.3
12.5°	626.1	622.0	619.5	617.0	615.3	614.5	611.1	612.8	609.5	608.6	608.6
15°	603.6	598.6	594.4	592.8	592.8	591.1	588.6	591.9	590.3	591.1	595.3
17.5°	568.6	566.1	563.6	562.8	563.6	565.3	566.9	571.9	571.9	574.4	578.6
20°	537.8	536.1	537.8	537.8	538.6	541.9	545.3	549.4	551.1	553.6	559.4
22.5°	507.7	507.7	509.4	511.9	511.1	516.9	517.7	525.2	525.2	530.2	535.3
25°	478.6	478.6	480.2	481.1	482.7	486.1	489.4	495.2	496.9	501.9	506.1
27.5°	450.2	449.4	449.4	450.2	451.9	456.0	457.7	464.4	466.9	470.2	474.4
30°	418.5	417.7	419.4	421.0	420.2	424.4	426.9	431.9	433.5	436.9	440.2
32.5°	388.5	388.5	388.5	390.2	390.2	393.5	393.5	399.4	399.4	401.9	405.2
35°	357.7	357.7	358.5	359.3	360.2	361.0	361.8	365.2	366.0	366.8	368.5
37.5°	328.5	327.7	328.5	328.5	326.8	330.2	330.2	333.5	331.0	333.5	334.3
40°	298.5	298.5	297.6	297.6	297.6	299.3	297.6	300.1	298.5	300.1	299.3
42.5°	267.6	267.6	266.0	267.6	266.8	266.8	266.8	268.5	266.0	267.6	268.5
45°	236.8	235.9	235.9	235.1	235.1	235.1	235.9	235.9	235.1	236.8	236.8
47.5°	206.8	205.9	205.9	205.9	205.9	206.8	204.3	205.9	204.3	204.3	204.3
50°	180.9	180.1	179.3	178.4	177.6	177.6	176.7	176.7	175.1	174.2	173.4
52.5°	155.9	155.1	153.4	153.4	152.6	151.7	149.2	149.2	146.7	145.9	145.9
55°	133.4	130.9	130.1	128.4	128.4	126.7	125.1	123.4	120.9	119.2	119.2
57.5°	112.6	110.1	108.4	107.6	106.7	105.0	101.7	100.9	97.5	96.7	95.9
60°	94.2	91.7	89.2	87.5	86.7	84.2	80.9	79.2	77.5	75.0	72.5
62.5°	76.7	74.2	70.9	70.0	68.4	65.9	63.4	60.9	59.2	56.7	55.0
65°	61.7	59.2	56.7	55.0	53.4	50.9	48.4	45.9	44.2	43.4	42.5
67.5°	50.0	46.7	44.2	43.4	41.7	40.0	37.5	36.7	35.0	35.0	35.0
70°	39.2	36.7	34.2	33.3	32.5	30.8	29.2	29.2	29.2	29.2	29.2
72.5°	29.2	27.5	25.0	24.2	23.3	22.5	20.8	21.7	20.8	20.8	20.8
75°	18.3	16.7	15.0	14.2	13.3	12.5	11.7	10.8	10.0	9.2	9.2
77.5°	10.0	8.3	7.5	6.7	6.7	5.8	5.0	5.0	4.2	4.2	4.2
80°	5.8	5.0	4.2	3.3	3.3	2.5	2.5	2.5	2.5	1.7	1.7
82.5°	3.3	2.5	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
85°	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	642.0	642.0	642.0	642.0	642.0	642.0	642.0	642.0
2.5°	637.0	639.5	637.0	639.5	639.5	639.5	639.5	637.0
5°	632.8	634.5	632.0	633.6	634.5	633.6	633.6	631.1
7.5°	625.3	627.0	624.5	627.0	627.8	627.0	626.1	624.5
10°	617.8	618.6	616.1	617.8	619.5	619.5	618.6	616.1
12.5°	606.1	608.6	606.1	607.8	609.5	610.3	610.3	607.8
15°	592.8	596.9	595.3	597.8	600.3	601.1	601.1	600.3
17.5°	579.4	583.6	581.1	585.3	587.8	589.4	590.3	588.6
20°	560.3	565.3	563.6	566.9	570.3	572.8	572.8	570.3
22.5°	535.3	541.9	541.1	543.6	547.8	548.6	550.3	548.6
25°	507.7	512.7	511.9	514.4	519.4	519.4	520.2	520.2
27.5°	476.1	481.1	480.2	481.9	485.2	486.1	486.9	485.2
30°	441.9	444.4	444.4	446.9	449.4	450.2	450.2	447.7
32.5°	404.4	407.7	409.4	408.5	411.0	412.7	411.9	411.9
35°	370.2	371.0	371.8	372.7	373.5	375.2	373.5	372.7
37.5°	333.5	336.0	334.3	336.0	337.7	336.8	336.0	336.0
40°	300.1	301.0	299.3	301.0	301.8	301.8	301.8	300.1
42.5°	266.8	268.5	266.8	268.5	268.5	268.5	268.5	267.6
45°	233.4	235.1	235.1	235.9	235.9	235.1	235.1	235.1
47.5°	202.6	204.3	202.6	204.3	205.1	203.4	203.4	203.4
50°	173.4	172.6	172.6	173.4	173.4	173.4	173.4	172.6
52.5°	143.4	144.2	144.2	144.2	145.1	144.2	145.1	145.1
55°	117.6	117.6	117.6	118.4	117.6	117.6	118.4	119.2
57.5°	94.2	93.4	92.5	92.5	93.4	92.5	92.5	92.5
60°	72.5	71.7	70.9	70.9	70.9	70.9	70.9	70.0
62.5°	54.2	54.2	54.2	55.0	55.0	55.0	55.0	55.9
65°	43.4	43.4	43.4	43.4	43.4	43.4	43.4	44.2
67.5°	35.0	35.0	35.0	35.9	35.9	35.9	35.9	35.9
70°	29.2	29.2	30.0	29.2	30.0	30.0	30.0	30.0
72.5°	20.0	20.0	20.0	20.0	20.0	19.2	20.0	19.2
75°	8.3	8.3	8.3	8.3	8.3	8.3	8.3	7.5
77.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	3.3
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	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)