

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: P252569

Luminaire Tested: **LD6B15D010 EU6B10209730 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252569
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209730 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1091.0 lumens
Efficiency: N/A
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

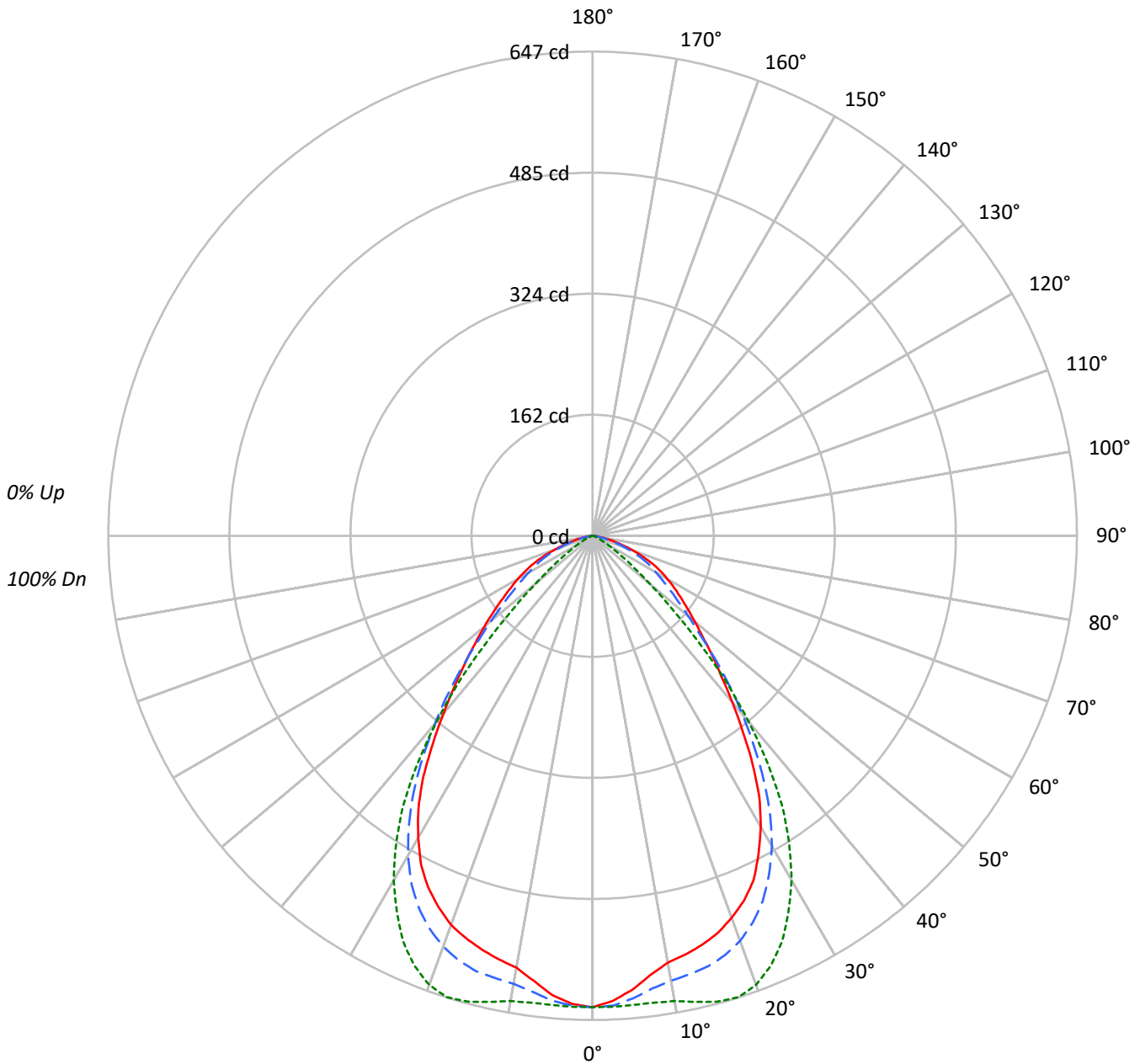
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	0
RCR																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100	100	100	100
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89	89	89	89
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79	79	79	79
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70	70	70	70
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62	62	62	62
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56	56	56	56
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50	50	50	50
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46	46	46	46
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42	42	42	42
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38	38	38	38
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35	35	35	35

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41095	41095	41095
5°	39870	41206	40348
10°	38350	41822	38834
15°	38215	43531	38661
20°	37713	44336	38421
25°	36590	43090	37375
30°	33847	40047	35105
35°	29691	35203	31436
40°	24741	27594	26359
45°	20824	18204	22236
50°	18036	9977	19142
55°	16322	5300	16732
60°	15018	2753	15018
65°	13600	1467	13261
70°	10968	839	10148
75°	7537	555	6982
80°	4922	263	4396
85°	3294	524	2695



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	5.4
10°-20°	169.8	15.6
20°-30°	250.9	23.0
30°-40°	253.5	23.2
40°-50°	174.7	16.0
50°-60°	100.3	9.2
60°-70°	58.4	5.4
70°-80°	21.3	2.0
80°-90°	3.3	0.3
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°	479.5	44.0
0°-40°	733.0	67.2
0°-60°	1008.0	92.4
0°-90°	1091.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1091.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	630	630	630	630	630	
5°	609	620	629	623	616	57
15°	566	596	644	602	572	159
25°	508	538	599	549	519	232
35°	373	398	442	416	395	231
45°	226	229	197	243	241	176
55°	144	126	47	131	147	129
65°	88	74	10	74	86	86
75°	30	24	2	23	28	34
85°	4	2	1	3	4	6
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°	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9
2.5°	621.9	622.6	623.3	622.6	623.3	626.2	624.1	625.5	625.5	626.2	628.4
5°	608.8	608.8	610.2	609.5	611.7	614.6	612.4	614.6	615.3	616.8	620.4
7.5°	592.0	592.0	592.8	592.8	595.7	598.6	597.1	600.0	602.9	605.9	610.2
10°	578.9	580.4	580.4	581.1	584.0	587.7	586.9	590.6	593.5	597.8	603.7
12.5°	573.1	573.8	573.8	575.3	578.2	581.8	581.1	584.7	589.1	594.2	600.0
15°	565.8	567.3	566.5	568.0	570.9	574.5	573.8	577.5	582.6	587.7	595.7
17.5°	556.3	557.1	557.8	557.8	560.7	563.6	563.6	567.3	573.1	578.9	587.7
20°	543.2	544.7	544.7	545.4	547.6	552.0	551.2	554.9	560.7	566.5	576.0
22.5°	527.9	528.7	528.7	529.4	533.0	535.2	536.0	538.9	544.0	550.5	559.3
25°	508.3	509.0	508.3	510.5	511.9	516.3	514.8	518.5	524.3	529.4	538.1
27.5°	479.9	481.3	481.3	482.1	485.7	489.3	489.3	493.0	498.1	501.7	510.5
30°	449.3	451.5	449.3	452.9	454.4	457.3	459.5	461.7	466.0	471.1	479.2
32.5°	414.3	413.6	414.3	415.8	420.2	422.4	423.8	426.0	430.4	434.7	441.3
35°	372.8	374.3	375.0	377.9	377.9	381.6	382.3	383.8	390.3	393.2	398.3
37.5°	329.1	330.6	331.3	332.8	335.7	337.2	339.3	341.5	345.9	351.0	353.9
40°	290.5	290.5	291.3	292.7	294.9	295.6	297.8	300.7	303.7	308.0	310.9
42.5°	254.1	254.9	254.1	255.6	257.8	260.7	260.0	263.6	264.3	267.2	269.4
45°	225.7	225.7	224.3	225.7	225.7	228.7	227.9	229.4	228.7	230.1	228.7
47.5°	198.8	199.5	198.8	199.5	199.5	199.5	200.3	198.8	199.5	197.3	193.0
50°	177.7	178.4	177.0	177.7	177.0	176.2	177.0	174.8	174.0	171.1	166.8
52.5°	159.5	158.7	158.0	158.0	158.0	157.3	156.6	154.4	152.2	149.3	144.2
55°	143.5	142.7	142.0	142.0	140.5	139.8	139.8	137.6	135.4	131.8	126.0
57.5°	128.9	128.2	127.4	127.4	126.7	125.2	125.2	123.1	120.2	115.8	110.7
60°	115.1	115.1	115.1	114.3	114.3	112.9	112.9	110.7	107.8	103.4	97.6
62.5°	102.7	101.9	101.9	101.9	101.9	101.2	100.5	99.0	96.1	91.8	86.7
65°	88.1	88.1	88.1	88.1	87.4	87.4	87.4	85.2	83.7	79.4	74.3
67.5°	72.1	72.1	72.1	72.1	71.4	72.1	72.1	70.6	69.2	64.8	60.4
70°	57.5	56.8	56.1	56.8	56.1	56.1	56.8	55.3	54.6	51.0	46.6
72.5°	42.2	43.0	42.2	42.2	42.2	41.5	42.2	41.5	40.1	37.1	34.2
75°	29.9	30.6	30.6	29.9	29.9	29.9	29.1	29.1	27.7	25.5	24.0
77.5°	20.4	20.4	20.4	20.4	19.7	19.7	19.7	18.9	18.2	16.7	15.3
80°	13.1	13.1	13.1	13.1	12.4	12.4	12.4	11.7	11.7	10.2	8.7
82.5°	8.0	8.0	8.0	8.0	8.0	8.0	7.3	7.3	6.6	5.8	5.1
85°	4.4	4.4	4.4	4.4	4.4	4.4	4.4	3.6	3.6	2.9	2.2
87.5°	1.5	1.5	2.2	2.2	2.2	2.2	2.2	2.2	1.5	1.5	1.5
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°	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9
2.5°	627.0	627.7	627.7	627.7	629.9	630.6	628.4	626.2	630.6	629.9	631.3
5°	619.7	621.9	623.3	624.1	626.2	627.7	625.5	624.8	628.4	629.2	629.9
7.5°	611.0	614.6	618.2	619.7	622.6	624.1	623.3	623.3	627.7	629.2	629.2
10°	605.1	610.2	614.6	618.2	621.9	624.1	624.1	624.8	629.9	631.3	632.8
12.5°	603.7	610.2	616.1	621.2	624.1	627.7	628.4	630.6	635.7	637.9	637.9
15°	600.0	608.8	616.1	622.6	627.0	631.3	632.8	637.2	643.0	644.5	645.9
17.5°	593.5	602.2	611.0	619.0	624.8	628.4	632.8	637.2	644.5	646.6	647.4
20°	581.8	592.0	600.8	608.8	614.6	619.7	624.1	629.2	635.7	638.6	639.4
22.5°	564.4	574.5	583.3	592.0	597.8	602.2	606.6	612.4	619.0	621.9	621.9
25°	543.2	552.7	562.2	568.7	574.5	579.6	581.8	588.4	594.9	598.6	598.6
27.5°	516.3	525.0	533.8	541.0	544.7	549.1	552.7	558.5	563.6	566.5	569.4
30°	482.1	490.8	498.8	506.1	510.5	514.8	518.5	522.8	527.9	531.6	532.3
32.5°	444.9	452.2	460.2	467.5	471.9	473.3	477.0	481.3	485.7	488.6	489.3
35°	404.1	409.2	414.3	420.9	425.3	425.3	428.9	431.8	435.5	442.0	440.6
37.5°	356.1	363.4	367.0	369.2	372.1	375.0	375.7	379.4	383.8	385.2	387.4
40°	310.9	313.1	315.3	315.3	318.2	318.2	318.2	318.9	323.3	324.0	327.0
42.5°	265.8	265.8	263.6	261.4	262.2	261.4	257.8	257.8	260.0	262.9	262.9
45°	223.6	218.5	211.9	206.8	203.2	201.7	197.3	197.3	196.6	197.3	200.3
47.5°	187.9	179.1	168.2	158.0	154.4	151.5	144.9	142.0	140.5	141.3	142.7
50°	158.0	148.6	136.2	123.8	117.2	113.6	105.6	100.5	99.8	98.3	101.2
52.5°	136.2	124.5	111.4	96.8	90.3	84.5	75.7	71.4	68.5	68.5	69.2
55°	117.2	104.9	90.3	75.7	69.2	64.8	56.1	50.2	47.3	46.6	48.8
57.5°	101.2	89.6	75.0	60.4	53.9	48.8	40.1	35.0	32.8	31.3	32.0
60°	88.8	77.2	62.6	48.8	43.0	37.1	29.9	24.0	21.1	21.1	21.8
62.5°	77.2	66.3	53.2	40.1	35.0	29.9	21.8	16.7	14.6	13.8	14.6
65°	65.5	55.3	44.4	33.5	28.4	24.0	17.5	13.1	10.2	9.5	10.2
67.5°	53.2	45.1	35.7	26.9	22.6	18.9	13.1	9.5	7.3	6.6	7.3
70°	41.5	34.2	26.9	19.7	16.7	13.8	9.5	7.3	5.1	4.4	5.1
72.5°	29.9	24.8	18.9	13.8	11.7	9.5	6.6	5.1	3.6	2.9	3.6
75°	20.4	16.7	12.4	8.7	7.3	6.6	4.4	2.9	2.2	2.2	2.2
77.5°	13.1	10.2	8.0	5.8	4.4	3.6	2.2	1.5	1.5	1.5	1.5
80°	7.3	5.8	4.4	2.9	2.2	2.2	1.5	1.5	0.7	0.7	0.7
82.5°	4.4	2.9	2.2	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7
85°	2.2	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	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°	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9
2.5°	628.4	629.2	627.0	629.9	627.7	630.6	630.6	627.7	628.4	627.0	629.9
5°	627.0	627.0	625.5	627.7	624.8	627.7	627.0	621.9	623.3	620.4	623.3
7.5°	627.0	625.5	623.3	625.5	621.9	624.1	621.2	616.1	614.6	611.0	611.0
10°	629.2	627.0	624.1	624.8	621.2	621.9	617.5	610.2	608.0	603.7	602.2
12.5°	634.3	632.1	627.7	629.2	624.1	624.1	618.2	609.5	605.1	599.3	597.8
15°	641.5	637.9	632.8	633.5	628.4	625.5	618.2	608.0	602.2	594.2	592.0
17.5°	643.0	639.4	632.8	632.8	626.2	622.6	613.9	602.2	594.9	586.9	582.6
20°	635.0	631.3	624.1	623.3	617.5	612.4	602.9	591.3	584.0	575.3	571.6
22.5°	618.2	613.9	607.3	606.6	600.8	597.8	587.7	576.0	568.7	560.0	557.1
25°	593.5	591.3	584.7	584.0	578.9	575.3	566.5	555.6	549.1	540.3	537.4
27.5°	564.4	562.2	555.6	555.6	549.8	547.6	539.6	529.4	524.3	516.3	512.6
30°	529.4	526.5	522.8	522.1	517.0	514.8	507.6	498.1	493.0	486.4	485.0
32.5°	487.9	485.7	483.5	482.8	477.7	475.5	470.4	460.9	456.6	450.8	448.6
35°	439.8	438.4	436.2	435.5	433.3	431.1	426.0	418.7	416.5	412.2	410.0
37.5°	384.5	385.9	384.5	384.5	382.3	383.0	378.7	374.3	372.1	369.2	367.7
40°	324.8	327.7	329.9	329.9	329.1	332.1	331.3	327.7	327.0	325.5	324.8
42.5°	264.3	265.8	270.2	273.1	272.3	279.6	280.4	283.3	285.5	284.0	284.7
45°	201.0	205.4	211.2	214.1	217.7	227.2	232.3	238.1	243.2	246.1	245.4
47.5°	144.9	150.0	156.6	160.9	167.5	179.1	192.2	199.5	206.8	210.4	214.1
50°	104.9	110.0	118.0	124.5	128.9	144.9	158.7	168.2	176.2	181.3	185.0
52.5°	73.5	79.4	88.1	93.9	100.5	115.8	131.8	142.7	151.5	158.0	161.7
55°	51.0	57.5	65.5	71.4	78.6	94.7	110.0	121.6	131.1	136.9	141.3
57.5°	35.7	41.5	49.5	54.6	61.9	77.2	92.5	104.1	113.6	119.4	124.5
60°	24.0	29.9	37.9	43.0	48.8	64.1	77.9	90.3	99.0	104.9	110.0
62.5°	16.7	21.8	29.9	35.0	40.1	53.2	66.3	77.2	85.9	92.5	96.8
65°	13.1	17.5	24.0	28.4	33.5	44.4	55.3	64.8	73.5	80.1	83.0
67.5°	9.5	13.8	18.9	22.6	26.2	35.7	45.1	52.4	60.4	65.5	69.2
70°	6.6	9.5	13.8	16.7	19.7	26.9	34.2	40.8	46.6	50.2	53.2
72.5°	5.1	6.6	9.5	11.7	13.8	18.9	24.8	29.9	34.2	37.1	40.1
75°	2.9	4.4	6.6	8.0	9.5	13.1	16.7	20.4	23.3	25.5	26.9
77.5°	1.5	2.2	3.6	4.4	5.8	8.0	10.9	13.1	15.3	16.7	18.2
80°	1.5	1.5	2.2	2.2	2.9	4.4	5.8	7.3	8.7	10.2	10.9
82.5°	0.7	0.7	1.5	1.5	1.5	2.2	2.9	4.4	5.1	5.8	6.6
85°	0.7	0.7	0.7	0.7	0.7	1.5	1.5	2.2	2.9	3.6	3.6
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.5	1.5	1.5	2.2
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°	629.9	629.9	629.9	629.9	629.9	629.9	629.9	629.9
2.5°	627.7	629.2	628.4	629.9	627.7	627.0	628.4	626.2
5°	619.7	620.4	619.7	619.7	618.2	616.8	618.2	616.1
7.5°	607.3	607.3	605.1	605.1	602.2	600.8	600.8	600.0
10°	597.1	594.9	592.8	593.5	589.1	587.7	586.9	586.2
12.5°	592.0	590.6	586.9	586.9	582.6	581.1	580.4	579.6
15°	586.2	583.3	580.4	579.6	576.0	574.5	573.8	572.4
17.5°	576.0	573.8	570.2	570.2	566.5	565.8	564.4	563.6
20°	565.1	562.2	559.3	559.3	554.9	554.9	552.7	553.4
22.5°	549.8	547.6	544.7	544.7	541.0	540.3	538.1	537.4
25°	531.6	528.7	526.5	525.8	522.8	521.4	520.7	519.2
27.5°	507.6	505.4	503.2	501.7	498.1	497.4	495.2	495.9
30°	477.7	476.2	475.5	474.1	469.7	468.2	468.2	466.0
32.5°	444.9	442.7	441.3	439.1	435.5	434.7	432.5	433.3
35°	404.9	402.0	399.8	400.5	396.1	395.4	394.0	394.7
37.5°	363.4	360.5	357.5	356.8	353.2	353.2	351.0	351.0
40°	320.4	317.5	316.0	316.0	311.7	312.4	310.2	309.5
42.5°	281.8	278.9	278.2	277.4	275.3	274.5	272.3	273.1
45°	245.4	244.7	244.7	243.2	241.0	240.3	241.0	241.0
47.5°	213.4	214.1	213.4	213.4	211.9	213.4	211.9	212.6
50°	186.4	187.9	187.9	187.9	187.1	187.9	187.9	188.6
52.5°	163.8	166.0	165.3	166.0	165.3	166.8	166.0	166.8
55°	144.2	145.6	146.4	147.1	147.1	147.1	147.1	147.1
57.5°	126.0	128.2	128.9	129.6	129.6	131.1	129.6	129.6
60°	111.4	113.6	114.3	115.1	115.1	115.8	114.3	115.1
62.5°	98.3	100.5	100.5	101.2	101.2	101.2	99.8	100.5
65°	85.2	85.9	86.7	86.7	85.9	85.9	85.2	85.9
67.5°	70.6	71.4	70.6	70.6	69.9	69.9	68.5	69.2
70°	54.6	54.6	55.3	54.6	53.9	54.6	53.9	53.2
72.5°	40.8	40.8	40.8	40.1	40.1	39.3	40.1	40.1
75°	27.7	27.7	28.4	28.4	28.4	28.4	27.7	27.7
77.5°	18.2	18.2	18.2	18.2	18.9	18.2	18.2	18.2
80°	11.7	11.7	12.4	12.4	11.7	11.7	11.7	11.7
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3
85°	4.4	4.4	4.4	4.4	3.6	3.6	3.6	3.6
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	1.5	1.5
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)