

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: P252545

Luminaire Tested: **LD6B10D010 EU6B10208030 6LBDW1LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252545  
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: LD6B10D010 EU6B10208030 6LBDW1LI  
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1060.0 lumens  
Efficiency: N/A  
Efficacy: 105.5 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

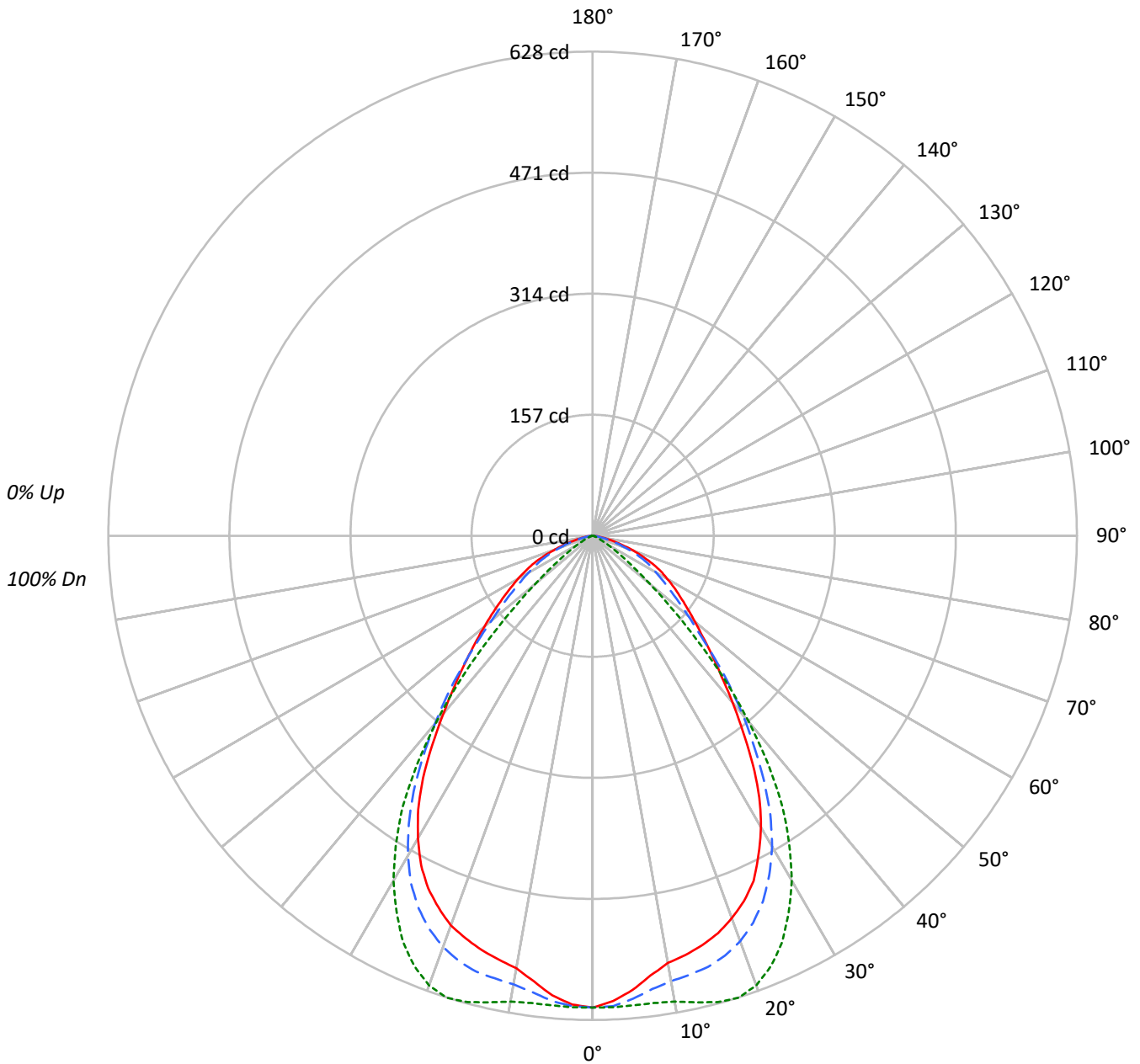
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20									20									20									20									
RC	80									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																			
1	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	39927	39927	39927
5°	38737	40034	39196
10°	37264	40636	37728
15°	37128	42288	37560
20°	36644	43080	37331
25°	35546	41867	36316
30°	32883	38910	34111
35°	28847	34207	30544
40°	24042	26810	25609
45°	20234	17687	21608
50°	17518	9693	18594
55°	15856	5153	16254
60°	14588	2675	14588
65°	13214	1420	12890
70°	10663	801	9843
75°	7310	529	6781
80°	4771	263	4245
85°	3144	524	2620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	57.1	5.4
10°-20°	165.0	15.6
20°-30°	243.8	23.0
30°-40°	246.3	23.2
40°-50°	169.7	16.0
50°-60°	97.5	9.2
60°-70°	56.7	5.4
70°-80°	20.7	2.0
80°-90°	3.2	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°	465.9	44.0
0°-40°	712.2	67.2
0°-60°	979.4	92.4
0°-90°	1060.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1060.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	612	612	612	612	612	
5°	592	603	611	606	598	55
15°	550	579	626	585	556	155
25°	494	523	582	534	504	225
35°	362	387	430	405	384	225
45°	219	222	192	236	234	171
55°	139	122	45	127	143	125
65°	86	72	9	72	84	84
75°	29	23	2	23	27	33
85°	4	2	1	3	4	5
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°	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
2.5°	604.2	604.9	605.6	604.9	605.6	608.5	606.3	607.7	607.7	608.5	610.6
5°	591.5	591.5	592.9	592.2	594.3	597.1	595.0	597.1	597.8	599.3	602.8
7.5°	575.2	575.2	575.9	575.9	578.7	581.6	580.2	583.0	585.8	588.6	592.9
10°	562.5	563.9	563.9	564.6	567.4	571.0	570.2	573.8	576.6	580.9	586.5
12.5°	556.8	557.5	557.5	558.9	561.8	565.3	564.6	568.1	572.4	577.3	583.0
15°	549.7	551.1	550.4	551.9	554.7	558.2	557.5	561.1	566.0	571.0	578.7
17.5°	540.5	541.2	541.9	541.9	544.8	547.6	547.6	551.1	556.8	562.5	571.0
20°	527.8	529.2	529.2	529.9	532.0	536.3	535.6	539.1	544.8	550.4	559.6
22.5°	512.9	513.6	513.6	514.4	517.9	520.0	520.7	523.6	528.5	534.9	543.4
25°	493.8	494.5	493.8	496.0	497.4	501.6	500.2	503.7	509.4	514.4	522.8
27.5°	466.2	467.7	467.7	468.4	471.9	475.4	475.4	479.0	483.9	487.5	496.0
30°	436.5	438.7	436.5	440.1	441.5	444.3	446.4	448.6	452.8	457.8	465.5
32.5°	402.6	401.9	402.6	404.0	408.2	410.4	411.8	413.9	418.1	422.4	428.7
35°	362.2	363.7	364.4	367.2	367.2	370.7	371.4	372.9	379.2	382.1	387.0
37.5°	319.8	321.2	321.9	323.3	326.2	327.6	329.7	331.8	336.1	341.0	343.8
40°	282.3	282.3	283.0	284.4	286.5	287.2	289.4	292.2	295.0	299.3	302.1
42.5°	246.9	247.6	246.9	248.3	250.5	253.3	252.6	256.1	256.8	259.7	261.8
45°	219.3	219.3	217.9	219.3	219.3	222.2	221.4	222.9	222.2	223.6	222.2
47.5°	193.1	193.9	193.1	193.9	193.9	193.9	194.6	193.1	193.9	191.7	187.5
50°	172.6	173.3	171.9	172.6	171.9	171.2	171.9	169.8	169.1	166.3	162.0
52.5°	154.9	154.2	153.5	153.5	153.5	152.8	152.1	150.0	147.9	145.0	140.1
55°	139.4	138.7	138.0	138.0	136.5	135.8	135.8	133.7	131.6	128.1	122.4
57.5°	125.2	124.5	123.8	123.8	123.1	121.7	121.7	119.6	116.7	112.5	107.5
60°	111.8	111.8	111.8	111.1	111.1	109.7	109.7	107.5	104.7	100.5	94.8
62.5°	99.8	99.1	99.1	99.1	99.1	98.3	97.6	96.2	93.4	89.1	84.2
65°	85.6	85.6	85.6	85.6	84.9	84.9	84.9	82.8	81.4	77.1	72.2
67.5°	70.0	70.0	70.0	70.0	69.3	70.0	70.0	68.6	67.2	63.0	58.7
70°	55.9	55.2	54.5	55.2	54.5	54.5	55.2	53.8	53.1	49.5	45.3
72.5°	41.0	41.7	41.0	41.0	41.0	40.3	41.0	40.3	38.9	36.1	33.3
75°	29.0	29.7	29.7	29.0	29.0	29.0	28.3	28.3	26.9	24.8	23.3
77.5°	19.8	19.8	19.8	19.8	19.1	19.1	19.1	18.4	17.7	16.3	14.9
80°	12.7	12.7	12.7	12.7	12.0	12.0	12.0	11.3	11.3	9.9	8.5
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	7.1	7.1	6.4	5.7	5.0
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.5	3.5	2.8	2.1
87.5°	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4
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°	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
2.5°	609.2	609.9	609.9	609.9	612.0	612.7	610.6	608.5	612.7	612.0	613.4
5°	602.1	604.2	605.6	606.3	608.5	609.9	607.7	607.0	610.6	611.3	612.0
7.5°	593.6	597.1	600.7	602.1	604.9	606.3	605.6	605.6	609.9	611.3	611.3
10°	587.9	592.9	597.1	600.7	604.2	606.3	606.3	607.0	612.0	613.4	614.8
12.5°	586.5	592.9	598.5	603.5	606.3	609.9	610.6	612.7	617.7	619.8	619.8
15°	583.0	591.5	598.5	604.9	609.2	613.4	614.8	619.1	624.7	626.1	627.6
17.5°	576.6	585.1	593.6	601.4	607.0	610.6	614.8	619.1	626.1	628.3	629.0
20°	565.3	575.2	583.7	591.5	597.1	602.1	606.3	611.3	617.7	620.5	621.2
22.5°	548.3	558.2	566.7	575.2	580.9	585.1	589.4	595.0	601.4	604.2	604.2
25°	527.8	537.0	546.2	552.6	558.2	563.2	565.3	571.7	578.0	581.6	581.6
27.5°	501.6	510.1	518.6	525.7	529.2	533.5	537.0	542.7	547.6	550.4	553.3
30°	468.4	476.9	484.6	491.7	496.0	500.2	503.7	508.0	512.9	516.5	517.2
32.5°	432.3	439.4	447.1	454.2	458.5	459.9	463.4	467.7	471.9	474.7	475.4
35°	392.7	397.6	402.6	408.9	413.2	413.2	416.7	419.5	423.1	429.5	428.0
37.5°	346.0	353.0	356.6	358.7	361.5	364.4	365.1	368.6	372.9	374.3	376.4
40°	302.1	304.2	306.3	306.3	309.2	309.2	309.2	309.9	314.1	314.8	317.7
42.5°	258.2	258.2	256.1	254.0	254.7	254.0	250.5	250.5	252.6	255.4	255.4
45°	217.2	212.3	205.9	200.9	197.4	196.0	191.7	191.7	191.0	191.7	194.6
47.5°	182.5	174.0	163.4	153.5	150.0	147.2	140.8	138.0	136.5	137.3	138.7
50°	153.5	144.3	132.3	120.3	113.9	110.4	102.6	97.6	96.9	95.5	98.3
52.5°	132.3	121.0	108.2	94.1	87.7	82.1	73.6	69.3	66.5	66.5	67.2
55°	113.9	101.9	87.7	73.6	67.2	63.0	54.5	48.8	46.0	45.3	47.4
57.5°	98.3	87.0	72.9	58.7	52.4	47.4	38.9	34.0	31.8	30.4	31.1
60°	86.3	75.0	60.8	47.4	41.7	36.1	29.0	23.3	20.5	20.5	21.2
62.5°	75.0	64.4	51.6	38.9	34.0	29.0	21.2	16.3	14.2	13.4	14.2
65°	63.7	53.8	43.2	32.5	27.6	23.3	17.0	12.7	9.9	9.2	9.9
67.5°	51.6	43.9	34.7	26.2	21.9	18.4	12.7	9.2	7.1	6.4	7.1
70°	40.3	33.3	26.2	19.1	16.3	13.4	9.2	7.1	5.0	4.2	5.0
72.5°	29.0	24.1	18.4	13.4	11.3	9.2	6.4	5.0	3.5	2.8	3.5
75°	19.8	16.3	12.0	8.5	7.1	6.4	4.2	2.8	2.1	2.1	2.1
77.5°	12.7	9.9	7.8	5.7	4.2	3.5	2.1	1.4	1.4	1.4	1.4
80°	7.1	5.7	4.2	2.8	2.1	2.1	1.4	1.4	0.7	0.7	0.7
82.5°	4.2	2.8	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
85°	2.1	1.4	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°	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
2.5°	610.6	611.3	609.2	612.0	609.9	612.7	612.7	609.9	610.6	609.2	612.0
5°	609.2	609.2	607.7	609.9	607.0	609.9	609.2	604.2	605.6	602.8	605.6
7.5°	609.2	607.7	605.6	607.7	604.2	606.3	603.5	598.5	597.1	593.6	593.6
10°	611.3	609.2	606.3	607.0	603.5	604.2	600.0	592.9	590.8	586.5	585.1
12.5°	616.2	614.1	609.9	611.3	606.3	606.3	600.7	592.2	587.9	582.3	580.9
15°	623.3	619.8	614.8	615.5	610.6	607.7	600.7	590.8	585.1	577.3	575.2
17.5°	624.7	621.2	614.8	614.8	608.5	604.9	596.4	585.1	578.0	570.2	566.0
20°	616.9	613.4	606.3	605.6	600.0	595.0	585.8	574.5	567.4	558.9	555.4
22.5°	600.7	596.4	590.1	589.4	583.7	580.9	571.0	559.6	552.6	544.1	541.2
25°	576.6	574.5	568.1	567.4	562.5	558.9	550.4	539.8	533.5	525.0	522.1
27.5°	548.3	546.2	539.8	539.8	534.2	532.0	524.3	514.4	509.4	501.6	498.1
30°	514.4	511.5	508.0	507.3	502.3	500.2	493.1	483.9	479.0	472.6	471.2
32.5°	474.0	471.9	469.8	469.1	464.1	462.0	457.0	447.8	443.6	437.9	435.8
35°	427.3	425.9	423.8	423.1	421.0	418.8	413.9	406.8	404.7	400.4	398.3
37.5°	373.6	375.0	373.6	373.6	371.4	372.1	367.9	363.7	361.5	358.7	357.3
40°	315.5	318.4	320.5	320.5	319.8	322.6	321.9	318.4	317.7	316.3	315.5
42.5°	256.8	258.2	262.5	265.3	264.6	271.7	272.4	275.2	277.3	275.9	276.6
45°	195.3	199.5	205.2	208.0	211.5	220.7	225.7	231.4	236.3	239.1	238.4
47.5°	140.8	145.7	152.1	156.4	162.7	174.0	186.8	193.9	200.9	204.5	208.0
50°	101.9	106.8	114.6	121.0	125.2	140.8	154.2	163.4	171.2	176.2	179.7
52.5°	71.5	77.1	85.6	91.3	97.6	112.5	128.1	138.7	147.2	153.5	157.1
55°	49.5	55.9	63.7	69.3	76.4	92.0	106.8	118.2	127.4	133.0	137.3
57.5°	34.7	40.3	48.1	53.1	60.1	75.0	89.9	101.2	110.4	116.0	121.0
60°	23.3	29.0	36.8	41.7	47.4	62.3	75.7	87.7	96.2	101.9	106.8
62.5°	16.3	21.2	29.0	34.0	38.9	51.6	64.4	75.0	83.5	89.9	94.1
65°	12.7	17.0	23.3	27.6	32.5	43.2	53.8	63.0	71.5	77.8	80.7
67.5°	9.2	13.4	18.4	21.9	25.5	34.7	43.9	50.9	58.7	63.7	67.2
70°	6.4	9.2	13.4	16.3	19.1	26.2	33.3	39.6	45.3	48.8	51.6
72.5°	5.0	6.4	9.2	11.3	13.4	18.4	24.1	29.0	33.3	36.1	38.9
75°	2.8	4.2	6.4	7.8	9.2	12.7	16.3	19.8	22.6	24.8	26.2
77.5°	1.4	2.1	3.5	4.2	5.7	7.8	10.6	12.7	14.9	16.3	17.7
80°	1.4	1.4	2.1	2.1	2.8	4.2	5.7	7.1	8.5	9.9	10.6
82.5°	0.7	0.7	1.4	1.4	1.4	2.1	2.8	4.2	5.0	5.7	6.4
85°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.8	3.5	3.5
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	2.1
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°	612.0	612.0	612.0	612.0	612.0	612.0	612.0	612.0
2.5°	609.9	611.3	610.6	612.0	609.9	609.2	610.6	608.5
5°	602.1	602.8	602.1	602.1	600.7	599.3	600.7	598.5
7.5°	590.1	590.1	587.9	587.9	585.1	583.7	583.7	583.0
10°	580.2	578.0	575.9	576.6	572.4	571.0	570.2	569.5
12.5°	575.2	573.8	570.2	570.2	566.0	564.6	563.9	563.2
15°	569.5	566.7	563.9	563.2	559.6	558.2	557.5	556.1
17.5°	559.6	557.5	554.0	554.0	550.4	549.7	548.3	547.6
20°	549.0	546.2	543.4	543.4	539.1	539.1	537.0	537.7
22.5°	534.2	532.0	529.2	529.2	525.7	525.0	522.8	522.1
25°	516.5	513.6	511.5	510.8	508.0	506.6	505.9	504.5
27.5°	493.1	491.0	488.9	487.5	483.9	483.2	481.1	481.8
30°	464.1	462.7	462.0	460.6	456.3	454.9	454.9	452.8
32.5°	432.3	430.2	428.7	426.6	423.1	422.4	420.3	421.0
35°	393.4	390.5	388.4	389.1	384.9	384.2	382.8	383.5
37.5°	353.0	350.2	347.4	346.7	343.1	343.1	341.0	341.0
40°	311.3	308.5	307.1	307.1	302.8	303.5	301.4	300.7
42.5°	273.8	271.0	270.3	269.6	267.4	266.7	264.6	265.3
45°	238.4	237.7	237.7	236.3	234.2	233.5	234.2	234.2
47.5°	207.3	208.0	207.3	207.3	205.9	207.3	205.9	206.6
50°	181.1	182.5	182.5	182.5	181.8	182.5	182.5	183.2
52.5°	159.2	161.3	160.6	161.3	160.6	162.0	161.3	162.0
55°	140.1	141.5	142.2	142.9	142.9	142.9	142.9	142.9
57.5°	122.4	124.5	125.2	125.9	125.9	127.4	125.9	125.9
60°	108.2	110.4	111.1	111.8	111.8	112.5	111.1	111.8
62.5°	95.5	97.6	97.6	98.3	98.3	98.3	96.9	97.6
65°	82.8	83.5	84.2	84.2	83.5	83.5	82.8	83.5
67.5°	68.6	69.3	68.6	68.6	67.9	67.9	66.5	67.2
70°	53.1	53.1	53.8	53.1	52.4	53.1	52.4	51.6
72.5°	39.6	39.6	39.6	38.9	38.9	38.2	38.9	38.9
75°	26.9	26.9	27.6	27.6	27.6	27.6	26.9	26.9
77.5°	17.7	17.7	17.7	17.7	18.4	17.7	17.7	17.7
80°	11.3	11.3	12.0	12.0	11.3	11.3	11.3	11.3
82.5°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	7.1
85°	4.2	4.2	4.2	4.2	3.5	3.5	3.5	3.5
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4
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)