

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: P252461

Luminaire Tested: **LD6B15D010 EU6B10209035 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252461  
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: LD6B15D010 EU6B10209035 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

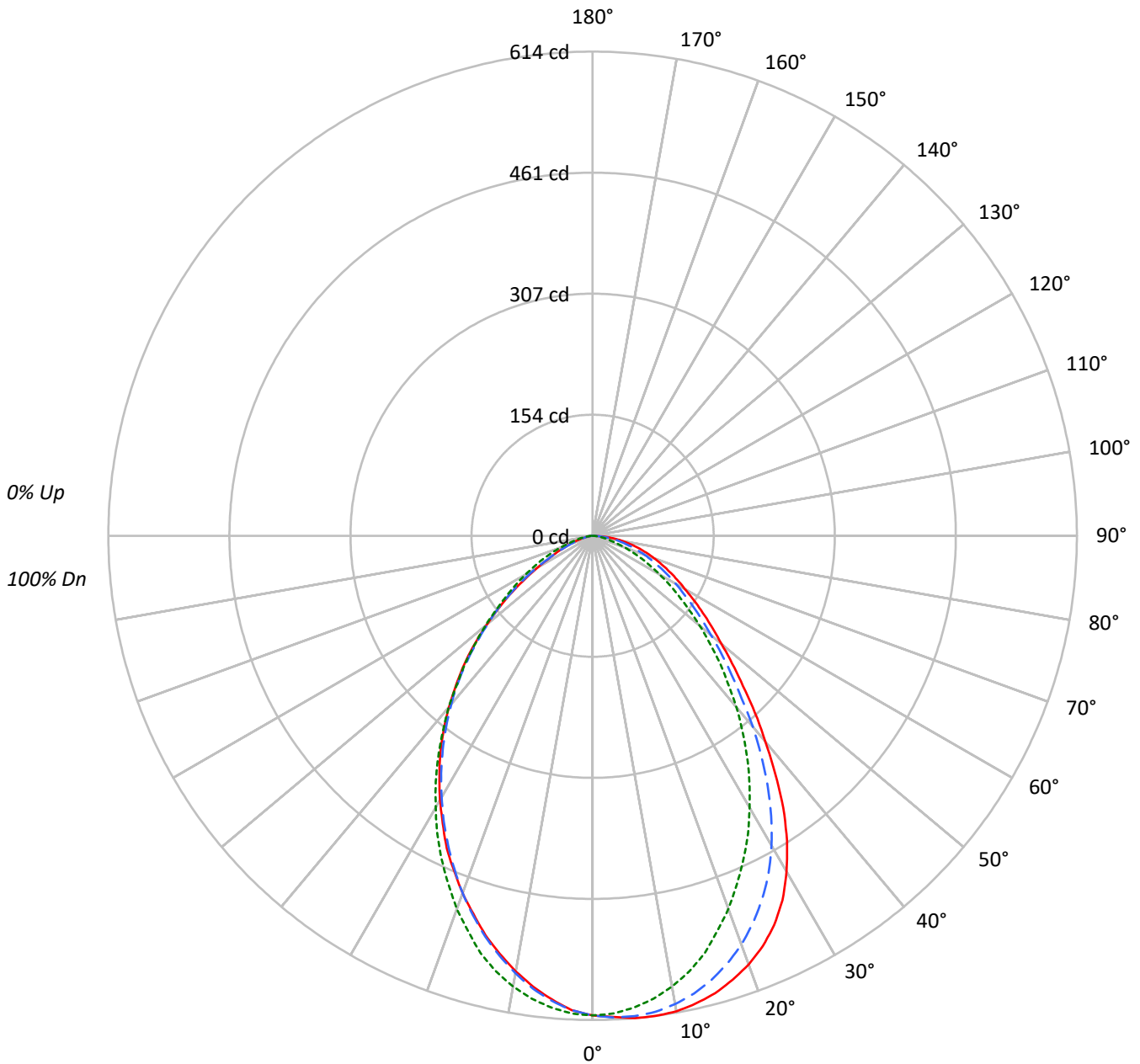
Lumens per Lamp: N/A  
Luminaire Lumens: 1078.0 lumens  
Efficiency: N/A  
Efficacy: 74.9 lumens/watt  
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct  
  
Input Watts (W): 14.39  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage 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									
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	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°	39679	39679	39679
5°	40217	39327	38665
10°	40570	38443	37158
15°	40559	37027	35426
20°	40171	34950	33485
25°	39217	32588	31493
30°	37034	29968	29146
35°	33570	27175	26840
40°	28990	24170	24102
45°	24856	21045	21193
50°	21609	18005	17742
55°	19405	15185	14218
60°	17628	12787	10465
65°	16564	10559	7688
70°	15794	8221	5646
75°	15124	5974	3831
80°	14277	4133	2555
85°	12651	2545	1273



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	56.9	5.3
10°-20°	155.8	14.5
20°-30°	216.3	20.1
30°-40°	224.0	20.8
40°-50°	184.1	17.1
50°-60°	126.5	11.7
60°-70°	72.7	6.7
70°-80°	33.4	3.1
80°-90°	8.1	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°	429.0	39.8
0°-40°	653.0	60.6
0°-60°	963.7	89.4
0°-90°	1078.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1078.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	608	608	608	608	608	
5°	614	612	600	592	590	59
15°	600	583	548	526	524	169
25°	545	508	453	433	438	249
35°	422	387	341	331	337	261
45°	269	249	228	226	230	210
55°	171	155	134	126	125	154
65°	107	94	68	48	50	107
75°	60	47	24	15	15	63
85°	17	12	3	2	2	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°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2
2.5°	610.7	615.8	612.4	611.5	613.2	613.2	613.2	610.7	612.4	609.8	611.5
5°	614.1	618.3	614.9	613.2	614.9	615.8	613.2	611.5	614.1	610.7	611.5
7.5°	614.1	618.3	614.9	614.1	614.9	614.9	614.1	610.7	612.4	609.0	609.0
10°	612.4	615.8	612.4	610.7	611.5	610.7	610.7	606.5	607.3	603.1	603.1
12.5°	607.3	611.5	607.3	605.6	605.6	605.6	603.1	599.7	600.5	595.5	594.6
15°	600.5	603.9	599.7	598.0	598.0	597.2	595.5	590.4	590.4	585.3	582.8
17.5°	590.4	593.8	590.4	587.9	587.0	585.3	583.7	578.6	576.9	571.0	568.5
20°	578.6	581.1	577.7	575.2	573.5	571.8	568.5	563.4	561.7	555.8	551.6
22.5°	563.4	566.8	561.7	559.2	557.5	554.9	551.6	546.5	544.0	536.4	531.3
25°	544.8	546.5	542.3	539.7	536.4	534.7	532.1	525.4	522.8	514.4	508.5
27.5°	521.2	522.8	517.8	516.1	511.9	510.2	506.8	500.9	497.5	489.1	483.1
30°	491.6	493.3	489.9	487.4	484.0	480.6	478.1	472.2	467.1	458.6	453.6
32.5°	458.6	461.2	457.8	454.4	448.5	449.4	445.1	439.2	435.0	427.4	421.5
35°	421.5	423.2	418.9	418.1	414.7	411.3	407.1	402.9	400.4	391.9	386.9
37.5°	380.1	384.3	380.1	376.7	375.0	372.5	370.0	364.0	362.4	357.3	350.5
40°	340.4	342.9	340.4	337.0	334.5	334.5	331.1	327.7	323.5	318.4	315.9
42.5°	304.9	303.2	302.4	300.7	297.3	296.5	295.6	291.4	288.9	283.8	279.6
45°	269.4	270.3	268.6	267.8	265.2	263.5	261.8	258.5	257.6	252.6	249.2
47.5°	239.9	239.0	237.3	237.3	235.7	234.0	232.3	229.7	228.9	224.7	221.3
50°	212.9	213.7	212.9	212.0	209.5	208.6	206.9	205.3	203.6	199.3	196.0
52.5°	190.9	190.0	189.2	189.2	186.7	185.8	184.1	182.4	180.8	176.5	174.0
55°	170.6	170.6	169.8	168.9	166.4	165.6	164.7	163.0	160.5	157.1	154.6
57.5°	152.0	152.0	151.2	150.3	148.7	148.7	147.0	145.3	143.6	140.2	136.8
60°	135.1	136.0	135.1	134.3	132.6	132.6	131.8	129.2	128.4	124.2	121.6
62.5°	120.8	120.8	120.8	119.9	119.1	117.4	117.4	114.9	113.2	110.6	107.3
65°	107.3	107.3	107.3	106.4	104.7	103.9	103.0	101.4	99.7	97.1	93.8
67.5°	94.6	94.6	94.6	93.8	92.1	91.2	90.4	89.5	87.0	84.5	81.1
70°	82.8	82.8	81.9	81.1	80.2	79.4	78.6	76.9	75.2	71.8	69.3
72.5°	71.0	71.0	71.0	69.3	68.4	68.4	66.7	65.9	64.2	60.8	58.3
75°	60.0	59.1	59.1	58.3	57.4	56.6	55.7	54.9	52.4	50.7	47.3
77.5°	49.0	49.0	48.1	47.3	47.3	46.5	45.6	43.9	43.1	40.5	38.0
80°	38.0	38.0	38.0	38.0	37.2	36.3	36.3	34.6	33.8	31.3	29.6
82.5°	28.7	27.9	27.9	27.9	27.0	26.2	26.2	25.3	24.5	22.8	21.1
85°	16.9	16.0	16.0	16.0	15.2	15.2	14.4	14.4	13.5	11.8	11.8
87.5°	5.1	5.1	5.9	5.9	5.1	5.1	5.1	5.1	5.1	4.2	4.2
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):**

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2
2.5°	609.8	612.4	609.0	608.2	611.5	609.8	609.0	607.3	608.2	606.5	603.9
5°	609.0	612.4	608.2	605.6	609.8	607.3	605.6	603.9	603.9	600.5	598.9
7.5°	606.5	608.2	603.9	601.4	603.9	601.4	599.7	597.2	596.3	592.1	589.6
10°	599.7	601.4	596.3	592.9	595.5	592.1	589.6	587.0	585.3	580.3	576.9
12.5°	590.4	591.3	585.3	581.1	582.8	580.3	576.1	572.7	571.0	565.9	561.7
15°	577.7	578.6	571.8	565.9	567.6	564.2	559.2	555.8	553.2	548.2	542.3
17.5°	562.5	561.7	554.1	548.2	549.0	544.8	539.7	534.7	531.3	525.4	521.2
20°	545.6	543.1	534.7	527.9	528.8	523.7	517.8	512.7	508.5	503.4	497.5
22.5°	524.5	521.2	513.6	505.1	505.9	501.7	493.3	489.1	484.8	478.1	473.0
25°	501.7	496.7	489.1	480.6	480.6	475.5	468.8	463.7	459.5	452.7	446.8
27.5°	474.7	472.2	462.0	455.3	454.4	449.4	443.4	437.5	432.5	426.6	420.6
30°	445.1	440.9	433.3	425.7	424.0	419.8	413.9	407.1	403.7	397.8	392.8
32.5°	413.9	409.7	401.2	393.6	392.8	389.4	384.3	377.6	374.2	370.0	366.6
35°	378.4	376.7	368.3	362.4	362.4	359.0	353.9	348.0	345.5	341.2	337.0
37.5°	344.6	342.1	334.5	329.4	329.4	325.2	320.1	317.6	315.1	311.7	309.1
40°	309.1	307.5	301.5	296.5	297.3	293.9	290.6	287.2	285.5	283.8	281.3
42.5°	276.2	274.5	270.3	266.1	266.1	263.5	260.2	257.6	255.9	253.4	252.6
45°	246.6	244.1	240.7	236.5	236.5	234.0	232.3	230.6	229.7	228.1	225.5
47.5°	217.9	216.2	212.9	208.6	208.6	208.6	205.3	202.7	202.7	201.0	200.2
50°	193.4	190.9	188.4	185.0	185.0	183.3	180.8	178.2	178.2	177.4	175.7
52.5°	170.6	168.9	165.6	162.2	162.2	160.5	158.0	157.1	156.3	153.7	152.9
55°	151.2	149.5	147.0	142.7	141.9	141.1	138.5	136.8	136.0	133.5	133.5
57.5°	133.5	131.8	127.5	125.0	124.2	122.5	119.9	118.3	117.4	115.7	114.0
60°	118.3	115.7	112.3	109.0	108.1	106.4	103.9	102.2	101.4	98.0	96.3
62.5°	103.9	101.4	98.0	94.6	93.8	92.1	88.7	87.0	85.3	81.9	80.2
65°	90.4	87.8	84.5	81.1	79.4	78.6	75.2	72.6	71.0	68.4	65.0
67.5°	77.7	75.2	71.8	67.6	67.6	65.0	62.5	60.0	57.4	54.9	52.4
70°	65.9	63.3	60.0	56.6	55.7	54.1	51.5	48.1	46.5	43.1	40.5
72.5°	54.9	52.4	49.0	45.6	44.8	43.1	40.5	37.2	34.6	32.1	29.6
75°	44.8	42.2	38.9	36.3	35.5	33.8	31.3	27.9	25.3	23.7	21.1
77.5°	35.5	32.9	30.4	27.9	27.0	25.3	22.8	21.1	18.6	16.9	14.4
80°	27.0	25.3	22.8	21.1	20.3	18.6	16.9	14.4	12.7	11.0	10.1
82.5°	19.4	17.7	16.0	13.5	13.5	11.8	11.0	9.3	7.6	6.8	5.9
85°	11.0	9.3	8.4	7.6	6.8	6.8	5.9	5.1	4.2	3.4	3.4
87.5°	3.4	3.4	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7
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°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2
2.5°	603.9	604.8	603.1	604.8	603.1	603.9	602.2	603.9	602.2	603.9	600.5
5°	598.0	598.0	595.5	597.2	595.5	596.3	592.9	593.8	592.1	593.8	590.4
7.5°	587.9	588.7	584.5	586.2	583.7	583.7	581.1	582.0	579.4	580.3	577.7
10°	576.1	575.2	571.0	572.7	569.3	569.3	566.8	566.8	563.4	564.2	560.9
12.5°	559.2	558.3	553.2	554.9	551.6	551.6	549.0	549.0	545.6	547.3	544.0
15°	539.7	538.9	533.8	534.7	531.3	531.3	527.9	528.8	526.2	527.9	524.5
17.5°	517.8	516.9	511.9	512.7	508.5	509.3	506.8	505.9	504.3	505.1	502.6
20°	495.0	493.3	488.2	489.1	487.4	484.8	483.1	484.0	482.3	484.0	481.5
22.5°	471.3	467.9	463.7	463.7	462.0	462.0	459.5	461.2	457.8	460.3	458.6
25°	444.3	441.8	438.4	440.1	436.7	436.7	434.2	435.0	433.3	435.0	433.3
27.5°	418.1	416.4	411.3	413.0	410.5	411.3	408.8	409.7	408.8	410.5	408.8
30°	390.2	389.4	386.0	386.0	385.2	384.3	383.5	383.5	382.6	385.2	383.5
32.5°	364.0	361.5	358.1	360.7	356.4	359.0	357.3	359.0	357.3	359.0	358.1
35°	337.0	336.2	331.9	332.8	331.9	331.9	331.1	331.1	331.1	333.6	333.6
37.5°	308.3	307.5	304.9	305.8	304.1	303.2	303.2	304.9	304.9	306.6	306.6
40°	280.4	281.3	278.7	278.7	277.9	277.9	277.9	279.6	278.7	280.4	279.6
42.5°	252.6	252.6	250.0	250.9	250.0	250.9	250.9	252.6	252.6	253.4	252.6
45°	226.4	226.4	225.5	226.4	224.7	225.5	224.7	226.4	225.5	226.4	226.4
47.5°	200.2	200.2	200.2	199.3	199.3	199.3	199.3	199.3	198.5	200.2	199.3
50°	175.7	176.5	175.7	175.7	174.8	175.7	174.8	174.8	173.2	174.0	174.0
52.5°	153.7	153.7	152.0	152.0	152.0	151.2	151.2	151.2	150.3	150.3	148.7
55°	132.6	132.6	130.9	130.9	130.1	129.2	128.4	128.4	125.9	125.9	123.3
57.5°	113.2	112.3	109.8	109.8	108.1	107.3	106.4	105.6	103.9	102.2	101.4
60°	95.4	93.8	92.1	91.2	89.5	87.8	86.2	84.5	82.8	81.9	81.1
62.5°	78.6	76.0	74.3	73.5	71.8	69.3	67.6	65.9	64.2	63.3	61.7
65°	63.3	60.8	58.3	57.4	55.7	54.1	51.5	49.8	48.1	47.3	47.3
67.5°	49.8	47.3	43.9	43.9	42.2	40.5	38.9	37.2	36.3	37.2	37.2
70°	37.2	35.5	32.9	32.1	30.4	28.7	27.9	27.9	27.9	28.7	27.9
72.5°	27.9	25.3	23.7	22.8	22.0	21.1	21.1	21.1	20.3	21.1	21.1
75°	19.4	17.7	16.0	16.0	15.2	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	13.5	11.8	11.0	11.0	11.0	10.1	10.1	10.1	10.1	10.1	10.1
80°	8.4	8.4	7.6	7.6	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	5.1	5.1	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	2.5	2.5	2.5	2.5	2.5	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	0.8	0.8	0.8	0.8	0.8	1.7	1.7	1.7	1.7	1.7	1.7
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°	608.2	608.2	608.2	608.2	608.2	608.2	608.2	608.2
2.5°	600.5	603.1	599.7	602.2	601.4	600.5	598.9	602.2
5°	590.4	591.3	587.9	591.3	590.4	588.7	587.0	590.4
7.5°	576.1	578.6	574.4	577.7	576.9	575.2	573.5	576.9
10°	560.0	562.5	559.2	561.7	561.7	560.0	557.5	560.9
12.5°	542.3	544.0	540.6	544.0	543.1	541.4	540.6	543.1
15°	522.8	525.4	522.0	524.5	523.7	522.8	522.0	524.5
17.5°	501.7	504.3	501.7	504.3	504.3	501.7	500.9	502.6
20°	480.6	482.3	479.8	482.3	481.5	481.5	479.8	482.3
22.5°	457.0	459.5	457.8	459.5	458.6	458.6	457.8	459.5
25°	433.3	435.8	433.3	435.8	435.0	435.0	433.3	437.5
27.5°	409.7	411.3	408.8	412.2	411.3	409.7	410.5	411.3
30°	384.3	386.0	384.3	386.9	386.9	386.9	385.2	386.9
32.5°	359.0	361.5	359.0	361.5	360.7	360.7	359.8	361.5
35°	333.6	334.5	332.8	335.3	335.3	336.2	334.5	337.0
37.5°	307.5	308.3	307.5	308.3	310.0	307.5	309.1	310.0
40°	280.4	282.1	281.3	282.1	282.1	283.0	282.1	283.0
42.5°	253.4	255.1	253.4	255.9	255.1	255.1	255.9	255.9
45°	225.5	228.1	226.4	228.1	228.9	228.1	228.1	229.7
47.5°	199.3	201.0	200.2	201.0	201.0	201.0	201.0	202.7
50°	173.2	174.0	174.0	174.8	174.8	175.7	174.0	174.8
52.5°	147.0	148.7	148.7	148.7	147.8	148.7	148.7	148.7
55°	123.3	124.2	122.5	124.2	124.2	123.3	123.3	125.0
57.5°	100.5	100.5	100.5	100.5	100.5	99.7	100.5	100.5
60°	79.4	80.2	79.4	79.4	79.4	79.4	78.6	80.2
62.5°	61.7	61.7	60.8	61.7	61.7	61.7	62.5	62.5
65°	48.1	49.0	48.1	49.0	49.0	49.0	49.0	49.8
67.5°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
70°	28.7	28.7	28.7	29.6	28.7	28.7	28.7	29.6
72.5°	21.1	21.1	21.1	21.1	21.1	21.1	22.0	22.0
75°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	15.2
77.5°	10.1	10.1	10.1	11.0	10.1	11.0	10.1	10.1
80°	6.8	6.8	6.8	6.8	6.8	6.8	6.8	6.8
82.5°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	4.2
85°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
87.5°	1.7	1.7	1.7	1.7	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



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— 0°-180°    - - 45°-225°    - - - - 90°-270°















(END OF REPORT)