

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: P252442

Luminaire Tested: **LD6B10D010 EU6B10208035 6LBLWW1H**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P252442  
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: LD6B10D010 EU6B10208035 6LBLWW1H  
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM  
Light Source: (1) HIGH LUMEN LED 80CRI / 3500K CCT  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 925.0 lumens  
Efficiency: N/A  
Efficacy: 92.0 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

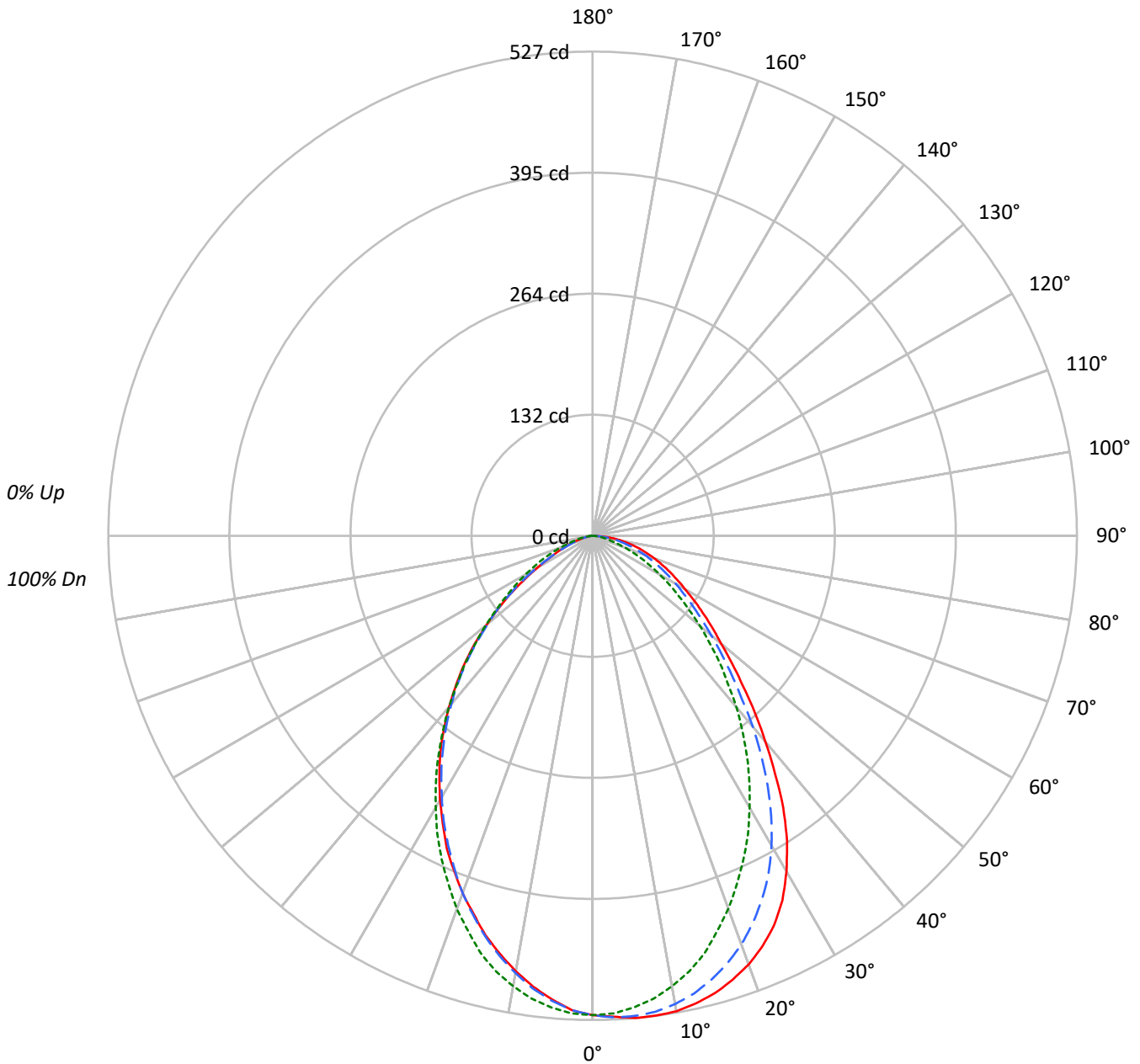
Input Watts (W): 10.05  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Luminous Intensity Polar Plot





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

RF	20					20					20					20					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				
1	111	107	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88				88				
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77				77				
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67				67				
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59				59				
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53				53				
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47				47				
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43				43				
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39				39				
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35				35				
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33				33				

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

	0°	90°	180°
0°	34043	34043	34043
5°	34507	33747	33177
10°	34813	32984	31878
15°	34804	31772	30401
20°	34471	29993	28729
25°	33653	27966	27023
30°	31776	25719	25003
35°	28807	23320	23033
40°	24877	20738	20678
45°	21331	18056	18185
50°	18533	15448	15224
55°	16652	13024	12205
60°	15136	10973	8990
65°	14202	9062	6607
70°	13543	7058	4845
75°	12982	5117	3277
80°	12248	3532	2179
85°	10854	2171	1048



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	48.8	5.3
10°-20°	133.7	14.5
20°-30°	185.6	20.1
30°-40°	192.2	20.8
40°-50°	158.0	17.1
50°-60°	108.6	11.7
60°-70°	62.4	6.7
70°-80°	28.7	3.1
80°-90°	7.0	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°	368.1	39.8
0°-40°	560.3	60.6
0°-60°	826.9	89.4
0°-90°	925.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	925.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	522	522	522	522	522	
5°	527	525	515	508	507	50
15°	515	500	470	452	450	145
25°	468	436	388	372	375	214
35°	362	332	293	284	289	224
45°	231	214	196	194	197	180
55°	146	133	114	108	107	132
65°	92	80	59	41	43	92
75°	52	41	20	13	13	54
85°	14	10	3	1	1	16
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°	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8
2.5°	524.0	528.4	525.5	524.7	526.2	526.2	526.2	524.0	525.5	523.3	524.7
5°	526.9	530.5	527.6	526.2	527.6	528.4	526.2	524.7	526.9	524.0	524.7
7.5°	526.9	530.5	527.6	526.9	527.6	527.6	526.9	524.0	525.5	522.6	522.6
10°	525.5	528.4	525.5	524.0	524.7	524.0	524.0	520.4	521.1	517.5	517.5
12.5°	521.1	524.7	521.1	519.7	519.7	519.7	517.5	514.6	515.3	511.0	510.2
15°	515.3	518.2	514.6	513.1	513.1	512.4	511.0	506.6	506.6	502.3	500.1
17.5°	506.6	509.5	506.6	504.4	503.7	502.3	500.8	496.5	495.0	489.9	487.8
20°	496.5	498.6	495.7	493.6	492.1	490.7	487.8	483.4	482.0	476.9	473.3
22.5°	483.4	486.3	482.0	479.8	478.4	476.2	473.3	468.9	466.8	460.2	455.9
25°	467.5	468.9	465.3	463.1	460.2	458.8	456.6	450.8	448.6	441.4	436.3
27.5°	447.2	448.6	444.3	442.8	439.2	437.8	434.9	429.8	426.9	419.6	414.6
30°	421.8	423.3	420.4	418.2	415.3	412.4	410.2	405.1	400.8	393.6	389.2
32.5°	393.6	395.7	392.8	389.9	384.9	385.6	382.0	376.9	373.3	366.7	361.7
35°	361.7	363.1	359.5	358.8	355.9	353.0	349.3	345.7	343.5	336.3	331.9
37.5°	326.1	329.8	326.1	323.2	321.8	319.6	317.5	312.4	310.9	306.6	300.8
40°	292.1	294.3	292.1	289.2	287.0	287.0	284.1	281.2	277.6	273.2	271.1
42.5°	261.6	260.2	259.5	258.0	255.1	254.4	253.7	250.0	247.9	243.5	239.9
45°	231.2	231.9	230.5	229.8	227.6	226.1	224.7	221.8	221.1	216.7	213.8
47.5°	205.8	205.1	203.7	203.7	202.2	200.8	199.3	197.1	196.4	192.8	189.9
50°	182.6	183.4	182.6	181.9	179.7	179.0	177.6	176.1	174.7	171.0	168.1
52.5°	163.8	163.1	162.3	162.3	160.2	159.5	158.0	156.6	155.1	151.5	149.3
55°	146.4	146.4	145.7	145.0	142.8	142.1	141.3	139.9	137.7	134.8	132.6
57.5°	130.5	130.5	129.7	129.0	127.6	127.6	126.1	124.7	123.2	120.3	117.4
60°	116.0	116.7	116.0	115.2	113.8	113.8	113.1	110.9	110.2	106.5	104.4
62.5°	103.6	103.6	103.6	102.9	102.2	100.7	100.7	98.6	97.1	94.9	92.0
65°	92.0	92.0	92.0	91.3	89.9	89.1	88.4	87.0	85.5	83.3	80.4
67.5°	81.2	81.2	81.2	80.4	79.0	78.3	77.6	76.8	74.7	72.5	69.6
70°	71.0	71.0	70.3	69.6	68.9	68.1	67.4	66.0	64.5	61.6	59.4
72.5°	60.9	60.9	60.9	59.4	58.7	58.7	57.3	56.5	55.1	52.2	50.0
75°	51.5	50.7	50.7	50.0	49.3	48.6	47.8	47.1	44.9	43.5	40.6
77.5°	42.0	42.0	41.3	40.6	40.6	39.9	39.1	37.7	37.0	34.8	32.6
80°	32.6	32.6	32.6	32.6	31.9	31.2	31.2	29.7	29.0	26.8	25.4
82.5°	24.6	23.9	23.9	23.9	23.2	22.5	22.5	21.7	21.0	19.6	18.1
85°	14.5	13.8	13.8	13.8	13.0	13.0	12.3	12.3	11.6	10.1	10.1
87.5°	4.3	4.3	5.1	5.1	4.3	4.3	4.3	4.3	4.3	3.6	3.6
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°	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8
2.5°	523.3	525.5	522.6	521.8	524.7	523.3	522.6	521.1	521.8	520.4	518.2
5°	522.6	525.5	521.8	519.7	523.3	521.1	519.7	518.2	518.2	515.3	513.9
7.5°	520.4	521.8	518.2	516.0	518.2	516.0	514.6	512.4	511.7	508.1	505.9
10°	514.6	516.0	511.7	508.8	511.0	508.1	505.9	503.7	502.3	497.9	495.0
12.5°	506.6	507.3	502.3	498.6	500.1	497.9	494.3	491.4	489.9	485.6	482.0
15°	495.7	496.5	490.7	485.6	487.0	484.1	479.8	476.9	474.7	470.4	465.3
17.5°	482.7	482.0	475.5	470.4	471.1	467.5	463.1	458.8	455.9	450.8	447.2
20°	468.2	466.0	458.8	453.0	453.7	449.4	444.3	439.9	436.3	432.0	426.9
22.5°	450.1	447.2	440.7	433.4	434.1	430.5	423.3	419.6	416.0	410.2	405.9
25°	430.5	426.2	419.6	412.4	412.4	408.0	402.2	397.9	394.3	388.5	383.4
27.5°	407.3	405.1	396.5	390.7	389.9	385.6	380.5	375.4	371.1	366.0	360.9
30°	382.0	378.3	371.8	365.3	363.8	360.2	355.1	349.3	346.4	341.4	337.0
32.5°	355.1	351.5	344.3	337.7	337.0	334.1	329.8	324.0	321.1	317.5	314.6
35°	324.7	323.2	316.0	310.9	310.9	308.0	303.7	298.6	296.4	292.8	289.2
37.5°	295.7	293.5	287.0	282.7	282.7	279.0	274.7	272.5	270.3	267.4	265.3
40°	265.3	263.8	258.7	254.4	255.1	252.2	249.3	246.4	245.0	243.5	241.3
42.5°	237.0	235.6	231.9	228.3	228.3	226.1	223.2	221.1	219.6	217.4	216.7
45°	211.6	209.5	206.6	202.9	202.9	200.8	199.3	197.9	197.1	195.7	193.5
47.5°	187.0	185.5	182.6	179.0	179.0	179.0	176.1	173.9	173.9	172.5	171.8
50°	166.0	163.8	161.6	158.7	158.7	157.3	155.1	152.9	152.9	152.2	150.8
52.5°	146.4	145.0	142.1	139.2	139.2	137.7	135.5	134.8	134.1	131.9	131.2
55°	129.7	128.3	126.1	122.5	121.8	121.0	118.9	117.4	116.7	114.5	114.5
57.5°	114.5	113.1	109.4	107.3	106.5	105.1	102.9	101.5	100.7	99.3	97.8
60°	101.5	99.3	96.4	93.5	92.8	91.3	89.1	87.7	87.0	84.1	82.6
62.5°	89.1	87.0	84.1	81.2	80.4	79.0	76.1	74.7	73.2	70.3	68.9
65°	77.6	75.4	72.5	69.6	68.1	67.4	64.5	62.3	60.9	58.7	55.8
67.5°	66.7	64.5	61.6	58.0	58.0	55.8	53.6	51.5	49.3	47.1	44.9
70°	56.5	54.4	51.5	48.6	47.8	46.4	44.2	41.3	39.9	37.0	34.8
72.5°	47.1	44.9	42.0	39.1	38.4	37.0	34.8	31.9	29.7	27.5	25.4
75°	38.4	36.2	33.3	31.2	30.4	29.0	26.8	23.9	21.7	20.3	18.1
77.5°	30.4	28.3	26.1	23.9	23.2	21.7	19.6	18.1	15.9	14.5	12.3
80°	23.2	21.7	19.6	18.1	17.4	15.9	14.5	12.3	10.9	9.4	8.7
82.5°	16.7	15.2	13.8	11.6	11.6	10.1	9.4	8.0	6.5	5.8	5.1
85°	9.4	8.0	7.2	6.5	5.8	5.8	5.1	4.3	3.6	2.9	2.9
87.5°	2.9	2.9	2.2	2.2	2.2	2.2	1.4	1.4	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):**

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8
2.5°	518.2	518.9	517.5	518.9	517.5	518.2	516.8	518.2	516.8	518.2	515.3
5°	513.1	513.1	511.0	512.4	511.0	511.7	508.8	509.5	508.1	509.5	506.6
7.5°	504.4	505.2	501.5	503.0	500.8	500.8	498.6	499.4	497.2	497.9	495.7
10°	494.3	493.6	489.9	491.4	488.5	488.5	486.3	486.3	483.4	484.1	481.2
12.5°	479.8	479.1	474.7	476.2	473.3	473.3	471.1	471.1	468.2	469.7	466.8
15°	463.1	462.4	458.1	458.8	455.9	455.9	453.0	453.7	451.5	453.0	450.1
17.5°	444.3	443.6	439.2	439.9	436.3	437.0	434.9	434.1	432.7	433.4	431.2
20°	424.7	423.3	418.9	419.6	418.2	416.0	414.6	415.3	413.8	415.3	413.1
22.5°	404.4	401.5	397.9	397.9	396.5	396.5	394.3	395.7	392.8	395.0	393.6
25°	381.2	379.1	376.2	377.6	374.7	374.7	372.5	373.3	371.8	373.3	371.8
27.5°	358.8	357.3	353.0	354.4	352.2	353.0	350.8	351.5	350.8	352.2	350.8
30°	334.8	334.1	331.2	331.2	330.5	329.8	329.0	329.0	328.3	330.5	329.0
32.5°	312.4	310.2	307.3	309.5	305.9	308.0	306.6	308.0	306.6	308.0	307.3
35°	289.2	288.5	284.8	285.6	284.8	284.8	284.1	284.1	284.1	286.3	286.3
37.5°	264.5	263.8	261.6	262.4	260.9	260.2	260.2	261.6	261.6	263.1	263.1
40°	240.6	241.3	239.2	239.2	238.5	238.5	238.5	239.9	239.2	240.6	239.9
42.5°	216.7	216.7	214.5	215.3	214.5	215.3	215.3	216.7	216.7	217.4	216.7
45°	194.2	194.2	193.5	194.2	192.8	193.5	192.8	194.2	193.5	194.2	194.2
47.5°	171.8	171.8	171.8	171.0	171.0	171.0	171.0	171.0	170.3	171.8	171.0
50°	150.8	151.5	150.8	150.8	150.0	150.8	150.0	150.0	148.6	149.3	149.3
52.5°	131.9	131.9	130.5	130.5	130.5	129.7	129.7	129.7	129.0	129.0	127.6
55°	113.8	113.8	112.3	112.3	111.6	110.9	110.2	110.2	108.0	108.0	105.8
57.5°	97.1	96.4	94.2	94.2	92.8	92.0	91.3	90.6	89.1	87.7	87.0
60°	81.9	80.4	79.0	78.3	76.8	75.4	73.9	72.5	71.0	70.3	69.6
62.5°	67.4	65.2	63.8	63.1	61.6	59.4	58.0	56.5	55.1	54.4	52.9
65°	54.4	52.2	50.0	49.3	47.8	46.4	44.2	42.8	41.3	40.6	40.6
67.5°	42.8	40.6	37.7	37.7	36.2	34.8	33.3	31.9	31.2	31.9	31.9
70°	31.9	30.4	28.3	27.5	26.1	24.6	23.9	23.9	23.9	24.6	23.9
72.5°	23.9	21.7	20.3	19.6	18.8	18.1	18.1	18.1	17.4	18.1	18.1
75°	16.7	15.2	13.8	13.8	13.0	13.0	13.0	13.0	13.0	13.0	13.0
77.5°	11.6	10.1	9.4	9.4	9.4	8.7	8.7	8.7	8.7	8.7	8.7
80°	7.2	7.2	6.5	6.5	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	4.3	4.3	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	2.2	2.2	2.2	2.2	2.2	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	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):**

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	521.8	521.8	521.8	521.8	521.8	521.8	521.8	521.8
2.5°	515.3	517.5	514.6	516.8	516.0	515.3	513.9	516.8
5°	506.6	507.3	504.4	507.3	506.6	505.2	503.7	506.6
7.5°	494.3	496.5	492.8	495.7	495.0	493.6	492.1	495.0
10°	480.5	482.7	479.8	482.0	482.0	480.5	478.4	481.2
12.5°	465.3	466.8	463.9	466.8	466.0	464.6	463.9	466.0
15°	448.6	450.8	447.9	450.1	449.4	448.6	447.9	450.1
17.5°	430.5	432.7	430.5	432.7	432.7	430.5	429.8	431.2
20°	412.4	413.8	411.7	413.8	413.1	413.1	411.7	413.8
22.5°	392.1	394.3	392.8	394.3	393.6	393.6	392.8	394.3
25°	371.8	374.0	371.8	374.0	373.3	373.3	371.8	375.4
27.5°	351.5	353.0	350.8	353.7	353.0	351.5	352.2	353.0
30°	329.8	331.2	329.8	331.9	331.9	331.9	330.5	331.9
32.5°	308.0	310.2	308.0	310.2	309.5	309.5	308.8	310.2
35°	286.3	287.0	285.6	287.7	287.7	288.5	287.0	289.2
37.5°	263.8	264.5	263.8	264.5	266.0	263.8	265.3	266.0
40°	240.6	242.1	241.3	242.1	242.1	242.8	242.1	242.8
42.5°	217.4	218.9	217.4	219.6	218.9	218.9	219.6	219.6
45°	193.5	195.7	194.2	195.7	196.4	195.7	195.7	197.1
47.5°	171.0	172.5	171.8	172.5	172.5	172.5	172.5	173.9
50°	148.6	149.3	149.3	150.0	150.0	150.8	149.3	150.0
52.5°	126.1	127.6	127.6	127.6	126.8	127.6	127.6	127.6
55°	105.8	106.5	105.1	106.5	106.5	105.8	105.8	107.3
57.5°	86.2	86.2	86.2	86.2	86.2	85.5	86.2	86.2
60°	68.1	68.9	68.1	68.1	68.1	68.1	67.4	68.9
62.5°	52.9	52.9	52.2	52.9	52.9	52.9	53.6	53.6
65°	41.3	42.0	41.3	42.0	42.0	42.0	42.0	42.8
67.5°	32.6	32.6	32.6	32.6	32.6	32.6	32.6	32.6
70°	24.6	24.6	24.6	25.4	24.6	24.6	24.6	25.4
72.5°	18.1	18.1	18.1	18.1	18.1	18.1	18.8	18.8
75°	13.0	13.0	13.0	13.0	13.0	13.0	13.0	13.0
77.5°	8.7	8.7	8.7	9.4	8.7	9.4	8.7	8.7
80°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
82.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
85°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
87.5°	1.4	1.4	1.4	1.4	0.7	0.7	0.7	0.7
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)