

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: P252464

Luminaire Tested: **LD6B15D010 EU6B10209727 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252464
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 EU6B10209727 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 889.0 lumens
Efficiency: N/A
Efficacy: 61.8 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

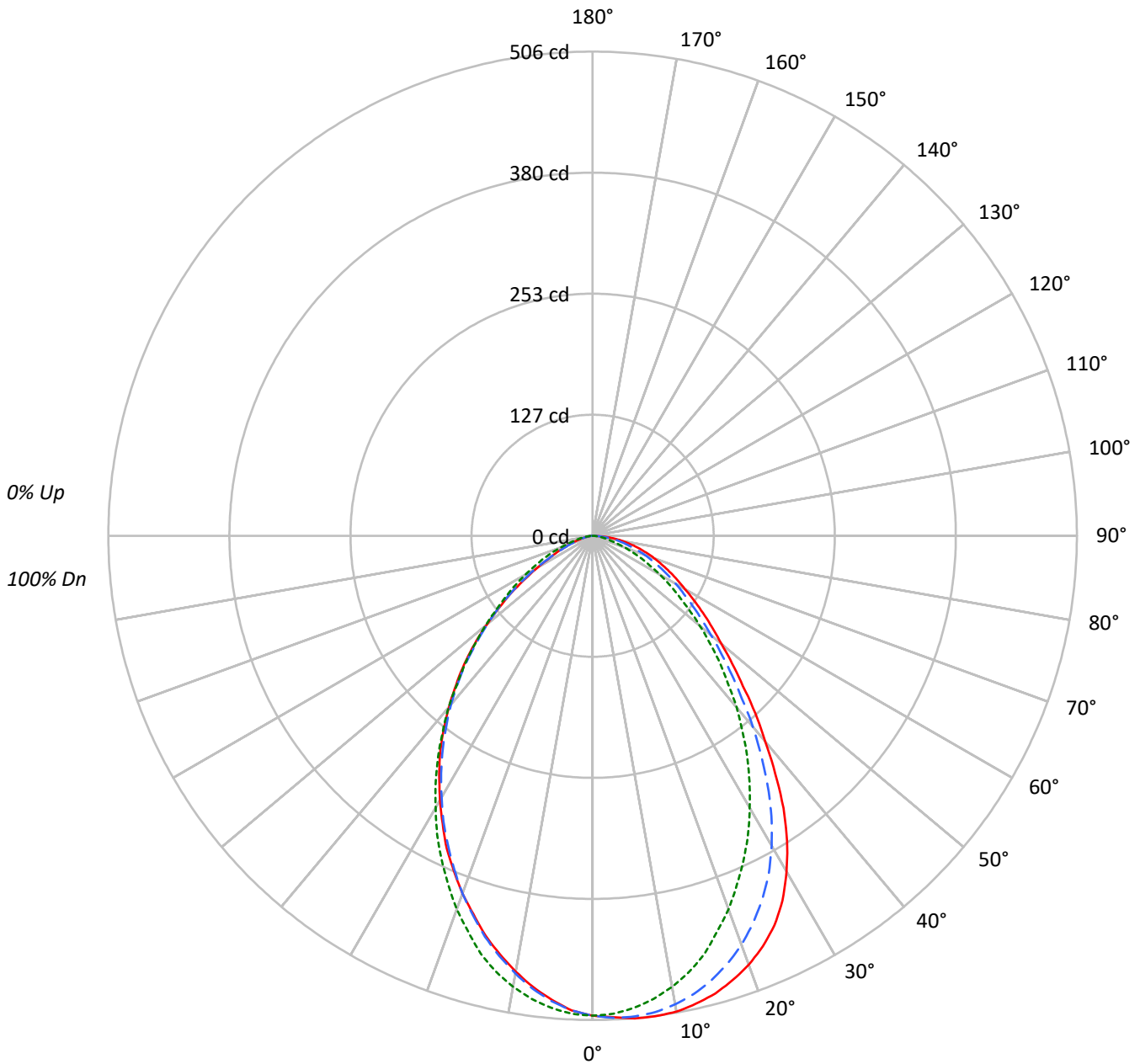
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				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°	32718	32718	32718
5°	33164	32437	31887
10°	33455	31699	30639
15°	33454	30536	29219
20°	33124	28826	27611
25°	32343	26879	25972
30°	30540	24717	24031
35°	27684	22412	22133
40°	23906	19929	19869
45°	20501	17355	17484
50°	17813	14849	14636
55°	16004	12523	11727
60°	14549	10543	8638
65°	13662	8707	6345
70°	13028	6772	4654
75°	12477	4915	3151
80°	11760	3419	2104
85°	10405	2096	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	46.9	5.3
10°-20°	128.5	14.5
20°-30°	178.4	20.1
30°-40°	184.8	20.8
40°-50°	151.8	17.1
50°-60°	104.4	11.7
60°-70°	60.0	6.7
70°-80°	27.6	3.1
80°-90°	6.7	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°	353.8	39.8
0°-40°	538.5	60.6
0°-60°	794.7	89.4
0°-90°	889.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	889.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	502	502	502	502	502	
5°	506	504	495	488	487	48
15°	495	481	452	434	433	139
25°	449	419	373	357	361	206
35°	348	319	281	273	278	216
45°	222	206	188	186	190	173
55°	141	128	110	104	103	127
65°	88	77	56	40	41	88
75°	50	39	20	12	12	52
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°	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5
2.5°	503.6	507.8	505.0	504.3	505.7	505.7	505.7	503.6	505.0	502.9	504.3
5°	506.4	509.9	507.1	505.7	507.1	507.8	505.7	504.3	506.4	503.6	504.3
7.5°	506.4	509.9	507.1	506.4	507.1	507.1	506.4	503.6	505.0	502.2	502.2
10°	505.0	507.8	505.0	503.6	504.3	503.6	503.6	500.1	500.8	497.3	497.3
12.5°	500.8	504.3	500.8	499.4	499.4	499.4	497.3	494.6	495.3	491.1	490.4
15°	495.3	498.0	494.6	493.2	493.2	492.5	491.1	486.9	486.9	482.7	480.6
17.5°	486.9	489.7	486.9	484.8	484.1	482.7	481.3	477.1	475.8	470.9	468.8
20°	477.1	479.2	476.5	474.4	473.0	471.6	468.8	464.6	463.2	458.3	454.9
22.5°	464.6	467.4	463.2	461.1	459.7	457.6	454.9	450.7	448.6	442.3	438.1
25°	449.3	450.7	447.2	445.1	442.3	440.9	438.8	433.3	431.2	424.2	419.3
27.5°	429.8	431.2	427.0	425.6	422.1	420.7	417.9	413.1	410.3	403.3	398.4
30°	405.4	406.8	404.0	401.9	399.1	396.3	394.3	389.4	385.2	378.2	374.1
32.5°	378.2	380.3	377.5	374.8	369.9	370.6	367.1	362.2	358.7	352.5	347.6
35°	347.6	349.0	345.5	344.8	342.0	339.2	335.7	332.3	330.2	323.2	319.0
37.5°	313.5	316.9	313.5	310.7	309.3	307.2	305.1	300.2	298.8	294.6	289.1
40°	280.7	282.8	280.7	277.9	275.8	275.8	273.1	270.3	266.8	262.6	260.5
42.5°	251.5	250.1	249.4	248.0	245.2	244.5	243.8	240.3	238.2	234.0	230.6
45°	222.2	222.9	221.5	220.8	218.7	217.3	215.9	213.1	212.5	208.3	205.5
47.5°	197.8	197.1	195.7	195.7	194.3	192.9	191.6	189.5	188.8	185.3	182.5
50°	175.5	176.2	175.5	174.8	172.7	172.1	170.7	169.3	167.9	164.4	161.6
52.5°	157.4	156.7	156.0	156.0	153.9	153.2	151.9	150.5	149.1	145.6	143.5
55°	140.7	140.7	140.0	139.3	137.2	136.5	135.8	134.4	132.3	129.6	127.5
57.5°	125.4	125.4	124.7	124.0	122.6	122.6	121.2	119.8	118.4	115.6	112.8
60°	111.5	112.1	111.5	110.8	109.4	109.4	108.7	106.6	105.9	102.4	100.3
62.5°	99.6	99.6	99.6	98.9	98.2	96.8	96.8	94.7	93.3	91.3	88.5
65°	88.5	88.5	88.5	87.8	86.4	85.7	85.0	83.6	82.2	80.1	77.3
67.5°	78.0	78.0	78.0	77.3	75.9	75.2	74.5	73.8	71.7	69.7	66.9
70°	68.3	68.3	67.6	66.9	66.2	65.5	64.8	63.4	62.0	59.2	57.1
72.5°	58.5	58.5	58.5	57.1	56.4	56.4	55.0	54.3	52.9	50.2	48.1
75°	49.5	48.8	48.8	48.1	47.4	46.7	46.0	45.3	43.2	41.8	39.0
77.5°	40.4	40.4	39.7	39.0	39.0	38.3	37.6	36.2	35.5	33.4	31.3
80°	31.3	31.3	31.3	31.3	30.6	30.0	30.0	28.6	27.9	25.8	24.4
82.5°	23.7	23.0	23.0	23.0	22.3	21.6	21.6	20.9	20.2	18.8	17.4
85°	13.9	13.2	13.2	13.2	12.5	12.5	11.8	11.8	11.1	9.8	9.8
87.5°	4.2	4.2	4.9	4.9	4.2	4.2	4.2	4.2	4.2	3.5	3.5
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°	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5
2.5°	502.9	505.0	502.2	501.5	504.3	502.9	502.2	500.8	501.5	500.1	498.0
5°	502.2	505.0	501.5	499.4	502.9	500.8	499.4	498.0	498.0	495.3	493.9
7.5°	500.1	501.5	498.0	496.0	498.0	496.0	494.6	492.5	491.8	488.3	486.2
10°	494.6	496.0	491.8	489.0	491.1	488.3	486.2	484.1	482.7	478.5	475.8
12.5°	486.9	487.6	482.7	479.2	480.6	478.5	475.1	472.3	470.9	466.7	463.2
15°	476.5	477.1	471.6	466.7	468.1	465.3	461.1	458.3	456.3	452.1	447.2
17.5°	463.9	463.2	456.9	452.1	452.8	449.3	445.1	440.9	438.1	433.3	429.8
20°	450.0	447.9	440.9	435.4	436.1	431.9	427.0	422.8	419.3	415.2	410.3
22.5°	432.6	429.8	423.5	416.5	417.2	413.8	406.8	403.3	399.8	394.3	390.1
25°	413.8	409.6	403.3	396.3	396.3	392.2	386.6	382.4	378.9	373.4	368.5
27.5°	391.5	389.4	381.0	375.4	374.8	370.6	365.7	360.8	356.6	351.8	346.9
30°	367.1	363.6	357.3	351.1	349.7	346.2	341.3	335.7	333.0	328.1	323.9
32.5°	341.3	337.8	330.9	324.6	323.9	321.1	316.9	311.4	308.6	305.1	302.3
35°	312.1	310.7	303.7	298.8	298.8	296.0	291.9	287.0	284.9	281.4	277.9
37.5°	284.2	282.1	275.8	271.7	271.7	268.2	264.0	261.9	259.8	257.0	254.9
40°	254.9	253.6	248.7	244.5	245.2	242.4	239.6	236.8	235.4	234.0	232.0
42.5°	227.8	226.4	222.9	219.4	219.4	217.3	214.5	212.5	211.1	209.0	208.3
45°	203.4	201.3	198.5	195.0	195.0	192.9	191.6	190.2	189.5	188.1	186.0
47.5°	179.7	178.3	175.5	172.1	172.1	172.1	169.3	167.2	167.2	165.8	165.1
50°	159.5	157.4	155.3	152.5	152.5	151.2	149.1	147.0	147.0	146.3	144.9
52.5°	140.7	139.3	136.5	133.7	133.7	132.3	130.3	129.6	128.9	126.8	126.1
55°	124.7	123.3	121.2	117.7	117.0	116.3	114.2	112.8	112.1	110.1	110.1
57.5°	110.1	108.7	105.2	103.1	102.4	101.0	98.9	97.5	96.8	95.4	94.0
60°	97.5	95.4	92.6	89.9	89.2	87.8	85.7	84.3	83.6	80.8	79.4
62.5°	85.7	83.6	80.8	78.0	77.3	75.9	73.1	71.7	70.4	67.6	66.2
65°	74.5	72.4	69.7	66.9	65.5	64.8	62.0	59.9	58.5	56.4	53.6
67.5°	64.1	62.0	59.2	55.7	55.7	53.6	51.5	49.5	47.4	45.3	43.2
70°	54.3	52.2	49.5	46.7	46.0	44.6	42.5	39.7	38.3	35.5	33.4
72.5°	45.3	43.2	40.4	37.6	36.9	35.5	33.4	30.6	28.6	26.5	24.4
75°	36.9	34.8	32.0	30.0	29.3	27.9	25.8	23.0	20.9	19.5	17.4
77.5°	29.3	27.2	25.1	23.0	22.3	20.9	18.8	17.4	15.3	13.9	11.8
80°	22.3	20.9	18.8	17.4	16.7	15.3	13.9	11.8	10.4	9.1	8.4
82.5°	16.0	14.6	13.2	11.1	11.1	9.8	9.1	7.7	6.3	5.6	4.9
85°	9.1	7.7	7.0	6.3	5.6	5.6	4.9	4.2	3.5	2.8	2.8
87.5°	2.8	2.8	2.1	2.1	2.1	2.1	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°	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5
2.5°	498.0	498.7	497.3	498.7	497.3	498.0	496.7	498.0	496.7	498.0	495.3
5°	493.2	493.2	491.1	492.5	491.1	491.8	489.0	489.7	488.3	489.7	486.9
7.5°	484.8	485.5	482.0	483.4	481.3	481.3	479.2	479.9	477.8	478.5	476.5
10°	475.1	474.4	470.9	472.3	469.5	469.5	467.4	467.4	464.6	465.3	462.5
12.5°	461.1	460.4	456.3	457.6	454.9	454.9	452.8	452.8	450.0	451.4	448.6
15°	445.1	444.4	440.2	440.9	438.1	438.1	435.4	436.1	434.0	435.4	432.6
17.5°	427.0	426.3	422.1	422.8	419.3	420.0	417.9	417.2	415.8	416.5	414.5
20°	408.2	406.8	402.6	403.3	401.9	399.8	398.4	399.1	397.7	399.1	397.0
22.5°	388.7	385.9	382.4	382.4	381.0	381.0	378.9	380.3	377.5	379.6	378.2
25°	366.4	364.3	361.5	362.9	360.1	360.1	358.0	358.7	357.3	358.7	357.3
27.5°	344.8	343.4	339.2	340.6	338.5	339.2	337.1	337.8	337.1	338.5	337.1
30°	321.8	321.1	318.3	318.3	317.6	316.9	316.2	316.2	315.5	317.6	316.2
32.5°	300.2	298.1	295.3	297.4	294.0	296.0	294.6	296.0	294.6	296.0	295.3
35°	277.9	277.2	273.8	274.4	273.8	273.8	273.1	273.1	273.1	275.1	275.1
37.5°	254.2	253.6	251.5	252.2	250.8	250.1	250.1	251.5	251.5	252.9	252.9
40°	231.3	232.0	229.9	229.9	229.2	229.2	229.2	230.6	229.9	231.3	230.6
42.5°	208.3	208.3	206.2	206.9	206.2	206.9	206.9	208.3	208.3	209.0	208.3
45°	186.7	186.7	186.0	186.7	185.3	186.0	185.3	186.7	186.0	186.7	186.7
47.5°	165.1	165.1	165.1	164.4	164.4	164.4	164.4	164.4	163.7	165.1	164.4
50°	144.9	145.6	144.9	144.9	144.2	144.9	144.2	144.2	142.8	143.5	143.5
52.5°	126.8	126.8	125.4	125.4	125.4	124.7	124.7	124.7	124.0	124.0	122.6
55°	109.4	109.4	108.0	108.0	107.3	106.6	105.9	105.9	103.8	103.8	101.7
57.5°	93.3	92.6	90.6	90.6	89.2	88.5	87.8	87.1	85.7	84.3	83.6
60°	78.7	77.3	75.9	75.2	73.8	72.4	71.0	69.7	68.3	67.6	66.9
62.5°	64.8	62.7	61.3	60.6	59.2	57.1	55.7	54.3	52.9	52.2	50.8
65°	52.2	50.2	48.1	47.4	46.0	44.6	42.5	41.1	39.7	39.0	39.0
67.5°	41.1	39.0	36.2	36.2	34.8	33.4	32.0	30.6	30.0	30.6	30.6
70°	30.6	29.3	27.2	26.5	25.1	23.7	23.0	23.0	23.0	23.7	23.0
72.5°	23.0	20.9	19.5	18.8	18.1	17.4	17.4	17.4	16.7	17.4	17.4
75°	16.0	14.6	13.2	13.2	12.5	12.5	12.5	12.5	12.5	12.5	12.5
77.5°	11.1	9.8	9.1	9.1	9.1	8.4	8.4	8.4	8.4	8.4	8.4
80°	7.0	7.0	6.3	6.3	5.6	5.6	5.6	5.6	5.6	5.6	5.6
82.5°	4.2	4.2	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
85°	2.1	2.1	2.1	2.1	2.1	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°	501.5	501.5	501.5	501.5	501.5	501.5	501.5	501.5
2.5°	495.3	497.3	494.6	496.7	496.0	495.3	493.9	496.7
5°	486.9	487.6	484.8	487.6	486.9	485.5	484.1	486.9
7.5°	475.1	477.1	473.7	476.5	475.8	474.4	473.0	475.8
10°	461.8	463.9	461.1	463.2	463.2	461.8	459.7	462.5
12.5°	447.2	448.6	445.8	448.6	447.9	446.5	445.8	447.9
15°	431.2	433.3	430.5	432.6	431.9	431.2	430.5	432.6
17.5°	413.8	415.8	413.8	415.8	415.8	413.8	413.1	414.5
20°	396.3	397.7	395.6	397.7	397.0	397.0	395.6	397.7
22.5°	376.8	378.9	377.5	378.9	378.2	378.2	377.5	378.9
25°	357.3	359.4	357.3	359.4	358.7	358.7	357.3	360.8
27.5°	337.8	339.2	337.1	339.9	339.2	337.8	338.5	339.2
30°	316.9	318.3	316.9	319.0	319.0	319.0	317.6	319.0
32.5°	296.0	298.1	296.0	298.1	297.4	297.4	296.7	298.1
35°	275.1	275.8	274.4	276.5	276.5	277.2	275.8	277.9
37.5°	253.6	254.2	253.6	254.2	255.6	253.6	254.9	255.6
40°	231.3	232.7	232.0	232.7	232.7	233.3	232.7	233.3
42.5°	209.0	210.4	209.0	211.1	210.4	210.4	211.1	211.1
45°	186.0	188.1	186.7	188.1	188.8	188.1	188.1	189.5
47.5°	164.4	165.8	165.1	165.8	165.8	165.8	165.8	167.2
50°	142.8	143.5	143.5	144.2	144.2	144.9	143.5	144.2
52.5°	121.2	122.6	122.6	122.6	121.9	122.6	122.6	122.6
55°	101.7	102.4	101.0	102.4	102.4	101.7	101.7	103.1
57.5°	82.9	82.9	82.9	82.9	82.9	82.2	82.9	82.9
60°	65.5	66.2	65.5	65.5	65.5	65.5	64.8	66.2
62.5°	50.8	50.8	50.2	50.8	50.8	50.8	51.5	51.5
65°	39.7	40.4	39.7	40.4	40.4	40.4	40.4	41.1
67.5°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	31.3
70°	23.7	23.7	23.7	24.4	23.7	23.7	23.7	24.4
72.5°	17.4	17.4	17.4	17.4	17.4	17.4	18.1	18.1
75°	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
77.5°	8.4	8.4	8.4	9.1	8.4	9.1	8.4	8.4
80°	5.6	5.6	5.6	5.6	5.6	5.6	5.6	5.6
82.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
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)