

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: P252458

Luminaire Tested: **LD6B15D010 EU6B10209024 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252458
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 EU6B10209024 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 900.0 lumens
Efficiency: N/A
Efficacy: 62.5 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

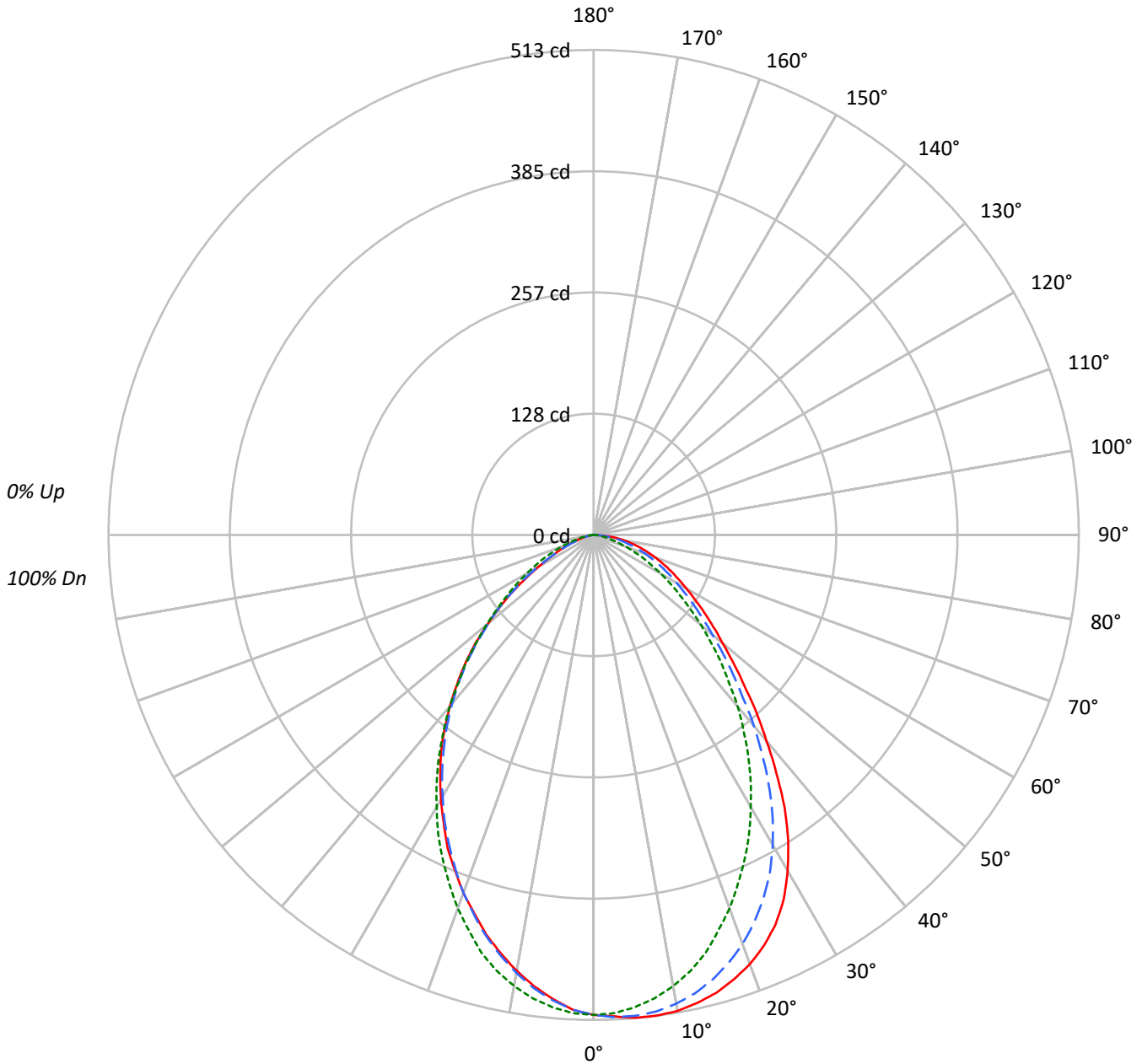
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	33123	33123	33123
5°	33577	32837	32280
10°	33872	32097	31017
15°	33866	30914	29577
20°	33540	29180	27959
25°	32739	27210	26296
30°	30917	25018	24333
35°	28027	22691	22412
40°	24204	20176	20116
45°	20759	17567	17696
50°	18036	15032	14818
55°	16197	12671	11875
60°	14718	10673	8742
65°	13832	8815	6422
70°	13181	6867	4712
75°	12629	4966	3201
80°	11910	3456	2104
85°	10555	2096	1048



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.5	5.3
10°-20°	130.1	14.5
20°-30°	180.6	20.1
30°-40°	187.1	20.8
40°-50°	153.7	17.1
50°-60°	105.6	11.7
60°-70°	60.7	6.7
70°-80°	27.9	3.1
80°-90°	6.8	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°	358.2	39.8
0°-40°	545.2	60.6
0°-60°	804.6	89.4
0°-90°	900.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	900.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	508	508	508	508	508	
5°	513	511	501	494	493	49
15°	501	487	458	439	438	141
25°	455	424	378	362	365	208
35°	352	323	285	276	281	218
45°	225	208	190	188	192	175
55°	142	129	111	105	104	128
65°	90	78	57	40	42	89
75°	50	40	20	13	13	53
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°	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7
2.5°	509.8	514.1	511.3	510.6	512.0	512.0	512.0	509.8	511.3	509.1	510.6
5°	512.7	516.2	513.4	512.0	513.4	514.1	512.0	510.6	512.7	509.8	510.6
7.5°	512.7	516.2	513.4	512.7	513.4	513.4	512.7	509.8	511.3	508.4	508.4
10°	511.3	514.1	511.3	509.8	510.6	509.8	509.8	506.3	507.0	503.5	503.5
12.5°	507.0	510.6	507.0	505.6	505.6	505.6	503.5	500.7	501.4	497.2	496.5
15°	501.4	504.2	500.7	499.3	499.3	498.6	497.2	492.9	492.9	488.7	486.6
17.5°	492.9	495.7	492.9	490.8	490.1	488.7	487.3	483.1	481.6	476.7	474.6
20°	483.1	485.2	482.3	480.2	478.8	477.4	474.6	470.4	468.9	464.0	460.5
22.5°	470.4	473.2	468.9	466.8	465.4	463.3	460.5	456.3	454.1	447.8	443.6
25°	454.8	456.3	452.7	450.6	447.8	446.4	444.3	438.6	436.5	429.5	424.5
27.5°	435.1	436.5	432.3	430.9	427.3	425.9	423.1	418.2	415.4	408.3	403.4
30°	410.4	411.8	409.0	406.9	404.1	401.3	399.1	394.2	390.0	382.9	378.7
32.5°	382.9	385.0	382.2	379.4	374.5	375.2	371.6	366.7	363.2	356.8	351.9
35°	351.9	353.3	349.8	349.1	346.2	343.4	339.9	336.4	334.3	327.2	323.0
37.5°	317.3	320.9	317.3	314.5	313.1	311.0	308.9	303.9	302.5	298.3	292.7
40°	284.2	286.3	284.2	281.4	279.3	279.3	276.4	273.6	270.1	265.9	263.7
42.5°	254.6	253.2	252.5	251.0	248.2	247.5	246.8	243.3	241.2	236.9	233.4
45°	225.0	225.7	224.2	223.5	221.4	220.0	218.6	215.8	215.1	210.9	208.0
47.5°	200.3	199.6	198.2	198.2	196.7	195.3	193.9	191.8	191.1	187.6	184.8
50°	177.7	178.4	177.7	177.0	174.9	174.2	172.8	171.4	169.9	166.4	163.6
52.5°	159.4	158.7	158.0	158.0	155.8	155.1	153.7	152.3	150.9	147.4	145.3
55°	142.4	142.4	141.7	141.0	138.9	138.2	137.5	136.1	134.0	131.2	129.0
57.5°	126.9	126.9	126.2	125.5	124.1	124.1	122.7	121.3	119.9	117.1	114.2
60°	112.8	113.5	112.8	112.1	110.7	110.7	110.0	107.9	107.2	103.7	101.5
62.5°	100.8	100.8	100.8	100.1	99.4	98.0	98.0	95.9	94.5	92.4	89.6
65°	89.6	89.6	89.6	88.9	87.4	86.7	86.0	84.6	83.2	81.1	78.3
67.5°	79.0	79.0	79.0	78.3	76.9	76.2	75.5	74.7	72.6	70.5	67.7
70°	69.1	69.1	68.4	67.7	67.0	66.3	65.6	64.2	62.8	59.9	57.8
72.5°	59.2	59.2	59.2	57.8	57.1	57.1	55.7	55.0	53.6	50.8	48.7
75°	50.1	49.4	49.4	48.7	48.0	47.2	46.5	45.8	43.7	42.3	39.5
77.5°	40.9	40.9	40.2	39.5	39.5	38.8	38.1	36.7	36.0	33.8	31.7
80°	31.7	31.7	31.7	31.7	31.0	30.3	30.3	28.9	28.2	26.1	24.7
82.5°	24.0	23.3	23.3	23.3	22.6	21.9	21.9	21.2	20.5	19.0	17.6
85°	14.1	13.4	13.4	13.4	12.7	12.7	12.0	12.0	11.3	9.9	9.9
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°	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7
2.5°	509.1	511.3	508.4	507.7	510.6	509.1	508.4	507.0	507.7	506.3	504.2
5°	508.4	511.3	507.7	505.6	509.1	507.0	505.6	504.2	504.2	501.4	500.0
7.5°	506.3	507.7	504.2	502.1	504.2	502.1	500.7	498.6	497.9	494.3	492.2
10°	500.7	502.1	497.9	495.0	497.2	494.3	492.2	490.1	488.7	484.5	481.6
12.5°	492.9	493.6	488.7	485.2	486.6	484.5	480.9	478.1	476.7	472.5	468.9
15°	482.3	483.1	477.4	472.5	473.9	471.1	466.8	464.0	461.9	457.7	452.7
17.5°	469.7	468.9	462.6	457.7	458.4	454.8	450.6	446.4	443.6	438.6	435.1
20°	455.5	453.4	446.4	440.7	441.4	437.2	432.3	428.0	424.5	420.3	415.4
22.5°	437.9	435.1	428.8	421.7	422.4	418.9	411.8	408.3	404.8	399.1	394.9
25°	418.9	414.6	408.3	401.3	401.3	397.0	391.4	387.1	383.6	378.0	373.0
27.5°	396.3	394.2	385.7	380.1	379.4	375.2	370.2	365.3	361.1	356.1	351.2
30°	371.6	368.1	361.8	355.4	354.0	350.5	345.5	339.9	337.1	332.1	327.9
32.5°	345.5	342.0	335.0	328.6	327.9	325.1	320.9	315.2	312.4	308.9	306.1
35°	315.9	314.5	307.5	302.5	302.5	299.7	295.5	290.5	288.4	284.9	281.4
37.5°	287.7	285.6	279.3	275.0	275.0	271.5	267.3	265.1	263.0	260.2	258.1
40°	258.1	256.7	251.8	247.5	248.2	245.4	242.6	239.8	238.4	236.9	234.8
42.5°	230.6	229.2	225.7	222.1	222.1	220.0	217.2	215.1	213.7	211.6	210.9
45°	205.9	203.8	201.0	197.5	197.5	195.3	193.9	192.5	191.8	190.4	188.3
47.5°	181.9	180.5	177.7	174.2	174.2	174.2	171.4	169.2	169.2	167.8	167.1
50°	161.5	159.4	157.3	154.4	154.4	153.0	150.9	148.8	148.8	148.1	146.7
52.5°	142.4	141.0	138.2	135.4	135.4	134.0	131.9	131.2	130.5	128.3	127.6
55°	126.2	124.8	122.7	119.2	118.5	117.8	115.7	114.2	113.5	111.4	111.4
57.5°	111.4	110.0	106.5	104.4	103.7	102.3	100.1	98.7	98.0	96.6	95.2
60°	98.7	96.6	93.8	91.0	90.3	88.9	86.7	85.3	84.6	81.8	80.4
62.5°	86.7	84.6	81.8	79.0	78.3	76.9	74.0	72.6	71.2	68.4	67.0
65°	75.5	73.3	70.5	67.7	66.3	65.6	62.8	60.6	59.2	57.1	54.3
67.5°	64.9	62.8	59.9	56.4	56.4	54.3	52.2	50.1	48.0	45.8	43.7
70°	55.0	52.9	50.1	47.2	46.5	45.1	43.0	40.2	38.8	36.0	33.8
72.5°	45.8	43.7	40.9	38.1	37.4	36.0	33.8	31.0	28.9	26.8	24.7
75°	37.4	35.3	32.4	30.3	29.6	28.2	26.1	23.3	21.2	19.7	17.6
77.5°	29.6	27.5	25.4	23.3	22.6	21.2	19.0	17.6	15.5	14.1	12.0
80°	22.6	21.2	19.0	17.6	16.9	15.5	14.1	12.0	10.6	9.2	8.5
82.5°	16.2	14.8	13.4	11.3	11.3	9.9	9.2	7.8	6.3	5.6	4.9
85°	9.2	7.8	7.1	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°	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7
2.5°	504.2	504.9	503.5	504.9	503.5	504.2	502.8	504.2	502.8	504.2	501.4
5°	499.3	499.3	497.2	498.6	497.2	497.9	495.0	495.7	494.3	495.7	492.9
7.5°	490.8	491.5	488.0	489.4	487.3	487.3	485.2	485.9	483.8	484.5	482.3
10°	480.9	480.2	476.7	478.1	475.3	475.3	473.2	473.2	470.4	471.1	468.2
12.5°	466.8	466.1	461.9	463.3	460.5	460.5	458.4	458.4	455.5	457.0	454.1
15°	450.6	449.9	445.7	446.4	443.6	443.6	440.7	441.4	439.3	440.7	437.9
17.5°	432.3	431.6	427.3	428.0	424.5	425.2	423.1	422.4	421.0	421.7	419.6
20°	413.2	411.8	407.6	408.3	406.9	404.8	403.4	404.1	402.7	404.1	402.0
22.5°	393.5	390.7	387.1	387.1	385.7	385.7	383.6	385.0	382.2	384.3	382.9
25°	370.9	368.8	366.0	367.4	364.6	364.6	362.5	363.2	361.8	363.2	361.8
27.5°	349.1	347.7	343.4	344.8	342.7	343.4	341.3	342.0	341.3	342.7	341.3
30°	325.8	325.1	322.3	322.3	321.6	320.9	320.2	320.2	319.4	321.6	320.2
32.5°	303.9	301.8	299.0	301.1	297.6	299.7	298.3	299.7	298.3	299.7	299.0
35°	281.4	280.7	277.1	277.8	277.1	277.1	276.4	276.4	276.4	278.5	278.5
37.5°	257.4	256.7	254.6	255.3	253.9	253.2	253.2	254.6	254.6	256.0	256.0
40°	234.1	234.8	232.7	232.7	232.0	232.0	232.0	233.4	232.7	234.1	233.4
42.5°	210.9	210.9	208.7	209.4	208.7	209.4	209.4	210.9	210.9	211.6	210.9
45°	189.0	189.0	188.3	189.0	187.6	188.3	187.6	189.0	188.3	189.0	189.0
47.5°	167.1	167.1	167.1	166.4	166.4	166.4	166.4	166.4	165.7	167.1	166.4
50°	146.7	147.4	146.7	146.7	146.0	146.7	146.0	146.0	144.6	145.3	145.3
52.5°	128.3	128.3	126.9	126.9	126.9	126.2	126.2	126.2	125.5	125.5	124.1
55°	110.7	110.7	109.3	109.3	108.6	107.9	107.2	107.2	105.1	105.1	103.0
57.5°	94.5	93.8	91.7	91.7	90.3	89.6	88.9	88.1	86.7	85.3	84.6
60°	79.7	78.3	76.9	76.2	74.7	73.3	71.9	70.5	69.1	68.4	67.7
62.5°	65.6	63.5	62.1	61.4	59.9	57.8	56.4	55.0	53.6	52.9	51.5
65°	52.9	50.8	48.7	48.0	46.5	45.1	43.0	41.6	40.2	39.5	39.5
67.5°	41.6	39.5	36.7	36.7	35.3	33.8	32.4	31.0	30.3	31.0	31.0
70°	31.0	29.6	27.5	26.8	25.4	24.0	23.3	23.3	23.3	24.0	23.3
72.5°	23.3	21.2	19.7	19.0	18.3	17.6	17.6	17.6	16.9	17.6	17.6
75°	16.2	14.8	13.4	13.4	12.7	12.7	12.7	12.7	12.7	12.7	12.7
77.5°	11.3	9.9	9.2	9.2	9.2	8.5	8.5	8.5	8.5	8.5	8.5
80°	7.1	7.1	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°	507.7	507.7	507.7	507.7	507.7	507.7	507.7	507.7
2.5°	501.4	503.5	500.7	502.8	502.1	501.4	500.0	502.8
5°	492.9	493.6	490.8	493.6	492.9	491.5	490.1	492.9
7.5°	480.9	483.1	479.5	482.3	481.6	480.2	478.8	481.6
10°	467.5	469.7	466.8	468.9	468.9	467.5	465.4	468.2
12.5°	452.7	454.1	451.3	454.1	453.4	452.0	451.3	453.4
15°	436.5	438.6	435.8	437.9	437.2	436.5	435.8	437.9
17.5°	418.9	421.0	418.9	421.0	421.0	418.9	418.2	419.6
20°	401.3	402.7	400.5	402.7	402.0	402.0	400.5	402.7
22.5°	381.5	383.6	382.2	383.6	382.9	382.9	382.2	383.6
25°	361.8	363.9	361.8	363.9	363.2	363.2	361.8	365.3
27.5°	342.0	343.4	341.3	344.1	343.4	342.0	342.7	343.4
30°	320.9	322.3	320.9	323.0	323.0	323.0	321.6	323.0
32.5°	299.7	301.8	299.7	301.8	301.1	301.1	300.4	301.8
35°	278.5	279.3	277.8	280.0	280.0	280.7	279.3	281.4
37.5°	256.7	257.4	256.7	257.4	258.8	256.7	258.1	258.8
40°	234.1	235.5	234.8	235.5	235.5	236.2	235.5	236.2
42.5°	211.6	213.0	211.6	213.7	213.0	213.0	213.7	213.7
45°	188.3	190.4	189.0	190.4	191.1	190.4	190.4	191.8
47.5°	166.4	167.8	167.1	167.8	167.8	167.8	167.8	169.2
50°	144.6	145.3	145.3	146.0	146.0	146.7	145.3	146.0
52.5°	122.7	124.1	124.1	124.1	123.4	124.1	124.1	124.1
55°	103.0	103.7	102.3	103.7	103.7	103.0	103.0	104.4
57.5°	83.9	83.9	83.9	83.9	83.9	83.2	83.9	83.9
60°	66.3	67.0	66.3	66.3	66.3	66.3	65.6	67.0
62.5°	51.5	51.5	50.8	51.5	51.5	51.5	52.2	52.2
65°	40.2	40.9	40.2	40.9	40.9	40.9	40.9	41.6
67.5°	31.7	31.7	31.7	31.7	31.7	31.7	31.7	31.7
70°	24.0	24.0	24.0	24.7	24.0	24.0	24.0	24.7
72.5°	17.6	17.6	17.6	17.6	17.6	17.6	18.3	18.3
75°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7
77.5°	8.5	8.5	8.5	9.2	8.5	9.2	8.5	8.5
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)