

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: P252358

Luminaire Tested: **LD6B15D010 EU6B10209040 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252358
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209040 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1151.0 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

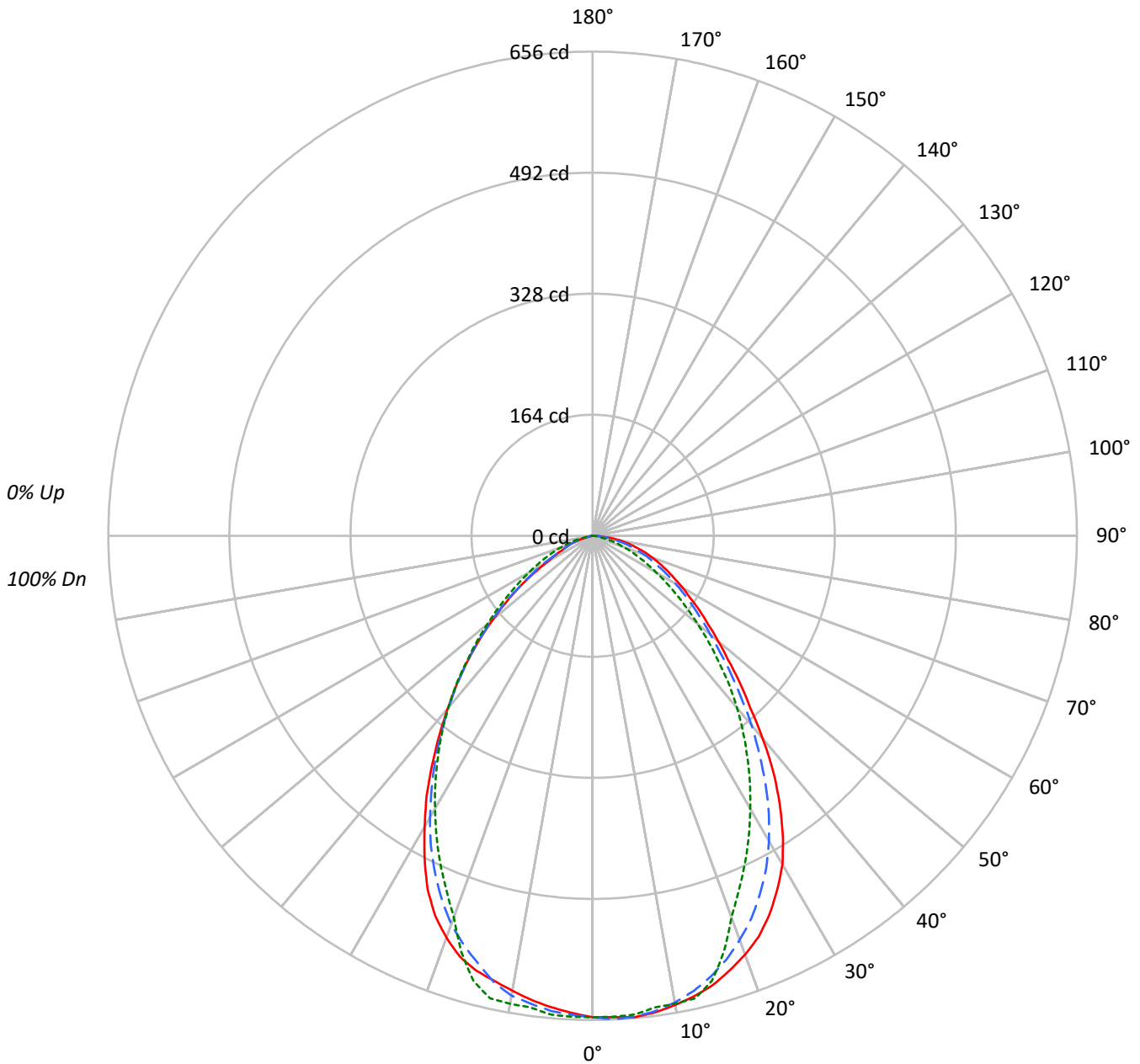
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
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			
1	111	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	42550	42550	42550
5°	42876	42654	41992
10°	42756	42643	41464
15°	42558	42160	41187
20°	41927	38164	40219
25°	40787	35179	38044
30°	38729	32160	34262
35°	35147	29070	30153
40°	30515	25899	25967
45°	26018	22273	22033
50°	22522	18828	17792
55°	20133	15708	13774
60°	18346	13035	9277
65°	17135	10729	6931
70°	16309	8717	5818
75°	15376	6201	1916
80°	14653	3193	639
85°	12052	1871	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.6	5.4
10°-20°	172.2	15.0
20°-30°	237.8	20.7
30°-40°	241.9	21.0
40°-50°	194.4	16.9
50°-60°	129.3	11.2
60°-70°	73.7	6.4
70°-80°	33.1	2.9
80°-90°	7.0	0.6
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°	471.6	41.0
0°-40°	713.5	62.0
0°-60°	1037.3	90.1
0°-90°	1151.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1151.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	652	652	652	652	652	
5°	655	654	651	646	641	62
15°	630	618	624	600	610	177
25°	567	536	489	505	528	260
35°	441	407	365	372	379	274
45°	282	265	241	239	239	219
55°	177	165	138	123	121	159
65°	111	99	70	45	45	111
75°	61	51	25	10	8	65
85°	16	11	2	1	0	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°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	653.0	656.4	655.6	654.7	655.6	654.7	653.0	653.0	651.3	651.3	655.6
5°	654.7	656.4	655.6	654.7	654.7	655.6	652.2	652.2	650.5	649.6	653.9
7.5°	651.3	653.9	652.2	652.2	651.3	652.2	648.8	648.8	646.2	645.4	649.6
10°	645.4	648.8	647.1	647.1	647.1	645.4	643.7	642.8	640.3	639.5	642.0
12.5°	638.6	641.2	640.3	638.6	638.6	638.6	635.2	634.4	631.0	629.3	631.8
15°	630.1	631.8	631.0	630.1	628.5	628.5	625.1	623.4	620.0	616.6	618.3
17.5°	617.4	620.0	618.3	617.4	614.9	614.9	611.5	609.8	604.7	601.3	602.2
20°	603.9	604.7	603.9	602.2	599.7	598.8	595.4	592.0	587.8	583.6	582.7
22.5°	587.8	588.6	586.1	584.4	581.9	581.0	576.8	574.2	567.5	562.4	561.5
25°	566.6	567.5	567.5	563.2	561.5	559.8	555.6	551.4	545.4	538.7	536.1
27.5°	541.2	543.8	542.1	537.8	534.4	533.6	529.4	526.0	518.3	512.4	509.0
30°	514.1	513.3	512.4	509.9	504.8	503.9	499.7	495.5	489.5	481.9	477.7
32.5°	479.4	479.4	478.5	476.0	470.9	469.2	465.8	460.8	454.0	448.0	443.8
35°	441.3	442.1	441.3	436.2	432.8	431.1	429.4	423.5	417.6	410.8	407.4
37.5°	401.5	398.9	399.8	395.5	391.3	393.0	387.9	385.4	378.6	373.5	370.1
40°	358.3	360.0	356.6	354.9	352.3	349.8	349.8	345.6	342.2	336.2	334.6
42.5°	315.9	318.5	317.6	315.9	312.5	313.4	309.1	307.4	303.2	300.7	298.1
45°	282.0	282.0	282.0	280.3	279.5	277.8	275.3	272.7	270.2	266.8	265.1
47.5°	249.0	249.0	249.9	248.2	246.5	245.6	243.9	243.9	239.7	236.3	234.6
50°	221.9	221.9	221.9	220.2	218.5	218.5	216.8	215.1	212.6	210.0	208.4
52.5°	197.3	197.3	197.3	195.6	194.8	194.0	193.1	192.3	188.9	187.2	185.5
55°	177.0	176.2	176.2	175.3	173.6	173.6	172.8	171.1	168.5	166.0	165.2
57.5°	156.7	157.5	156.7	156.7	155.0	155.0	153.3	152.5	149.9	148.2	146.5
60°	140.6	140.6	140.6	139.7	138.1	138.9	137.2	136.4	133.8	131.3	129.6
62.5°	124.5	125.4	125.4	124.5	122.8	122.8	122.0	121.1	118.6	116.0	113.5
65°	111.0	111.0	111.0	110.1	109.3	109.3	108.4	107.6	105.0	101.6	99.1
67.5°	98.2	97.4	97.4	97.4	96.6	95.7	94.9	94.0	91.5	88.9	85.5
70°	85.5	85.5	85.5	84.7	83.0	83.8	83.0	82.2	79.6	77.1	74.5
72.5°	73.7	73.7	72.8	72.0	72.0	71.1	71.1	70.3	67.8	64.4	61.8
75°	61.0	61.0	61.0	61.0	59.3	60.1	58.4	57.6	55.9	53.4	50.8
77.5°	50.0	50.0	50.0	49.1	48.3	48.3	47.4	46.6	44.0	42.3	39.0
80°	39.0	39.0	39.0	39.0	38.1	37.3	36.4	35.6	33.9	31.3	28.8
82.5°	28.8	28.8	27.9	27.9	27.9	27.1	26.3	25.4	23.7	22.0	20.3
85°	16.1	16.9	16.9	15.2	16.1	15.2	15.2	13.6	13.6	11.9	11.0
87.5°	5.9	5.1	5.1	5.1	5.1	5.1	5.1	4.2	4.2	4.2	3.4
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°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	652.2	651.3	654.7	654.7	649.6	652.2	653.0	651.3	651.3	652.2	649.6
5°	650.5	648.8	652.2	653.0	647.9	650.5	651.3	649.6	650.5	651.3	647.9
7.5°	644.5	644.5	647.1	647.9	642.8	645.4	645.4	643.7	644.5	644.5	642.0
10°	638.6	636.1	638.6	638.6	634.4	635.2	636.9	636.1	639.5	643.7	643.7
12.5°	627.6	625.1	629.3	629.3	626.8	630.1	634.4	636.9	640.3	642.0	636.9
15°	614.1	614.9	622.5	628.5	625.9	631.0	635.2	633.5	629.3	624.2	616.6
17.5°	596.3	593.7	600.5	603.9	600.5	602.2	605.6	602.2	595.4	591.2	581.0
20°	575.9	569.2	569.2	567.5	561.5	561.5	560.7	554.8	552.2	549.7	545.4
22.5°	553.1	545.4	542.9	537.8	532.7	531.9	529.4	523.4	520.0	518.3	513.3
25°	526.8	520.0	515.8	510.7	503.1	501.4	498.9	492.9	491.2	488.7	484.5
27.5°	499.7	491.2	485.3	480.2	473.5	472.6	467.5	463.3	459.9	458.2	454.8
30°	468.4	459.1	454.8	448.0	443.0	441.3	437.0	431.1	428.6	426.9	424.3
32.5°	433.6	426.0	421.8	415.9	409.1	409.9	404.9	399.8	398.1	396.4	393.8
35°	399.8	392.1	387.1	382.0	377.7	376.1	372.7	368.4	365.9	365.0	363.3
37.5°	362.5	356.6	352.3	347.3	343.9	342.2	340.5	336.2	334.6	334.6	331.2
40°	326.1	321.0	317.6	315.1	310.8	310.0	308.3	305.8	304.9	304.1	301.5
42.5°	293.1	286.3	283.7	282.0	279.5	277.8	277.0	275.3	274.4	273.6	271.0
45°	261.7	255.8	253.2	251.5	249.0	248.2	247.3	244.8	243.1	241.4	240.5
47.5°	231.2	227.0	226.1	221.9	220.2	218.5	216.8	215.1	214.3	213.4	210.0
50°	205.0	202.4	198.2	195.6	194.0	193.1	189.7	187.2	186.3	185.5	182.9
52.5°	181.3	177.9	175.3	171.1	170.2	168.5	166.9	163.5	161.8	160.9	158.4
55°	160.1	157.5	154.1	150.8	148.2	147.4	144.8	141.4	139.7	138.1	136.4
57.5°	142.3	138.1	134.7	131.3	129.6	127.0	124.5	122.8	120.3	117.7	115.2
60°	125.4	122.0	117.7	114.3	112.6	111.0	107.6	105.0	102.5	99.9	97.4
62.5°	109.3	105.9	101.6	98.2	96.6	94.9	91.5	88.9	86.4	83.8	80.5
65°	94.9	91.5	88.1	84.7	83.0	81.3	77.9	74.5	72.0	69.5	66.1
67.5°	83.0	78.8	75.4	72.0	70.3	68.6	65.2	62.7	59.3	56.7	53.4
70°	70.3	66.9	64.4	61.0	59.3	57.6	54.2	50.8	48.3	45.7	42.3
72.5°	59.3	55.1	52.5	49.1	47.4	46.6	43.2	40.7	38.1	34.7	32.2
75°	47.4	44.0	40.7	38.1	36.4	35.6	32.2	29.6	27.1	24.6	22.0
77.5°	36.4	33.9	30.5	27.9	26.3	25.4	22.0	19.5	16.9	15.2	12.7
80°	27.1	23.7	22.0	19.5	18.6	16.9	15.2	12.7	11.0	8.5	6.8
82.5°	18.6	16.1	14.4	12.7	11.9	11.0	9.3	7.6	5.9	5.1	4.2
85°	10.2	8.5	7.6	6.8	5.9	5.9	5.1	4.2	3.4	2.5	1.7
87.5°	3.4	2.5	2.5	2.5	2.5	1.7	1.7	1.7	0.8	0.8	0.8
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°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	651.3	651.3	651.3	650.5	650.5	650.5	649.6	653.0	649.6	648.8	651.3
5°	650.5	648.8	648.8	648.8	648.8	647.9	647.1	648.8	646.2	645.4	645.4
7.5°	645.4	644.5	644.5	643.7	642.8	642.0	641.2	642.0	639.5	638.6	638.6
10°	646.2	644.5	644.5	642.0	640.3	637.8	635.2	636.1	632.7	630.1	630.1
12.5°	636.1	631.8	629.3	626.8	625.1	624.2	620.8	622.5	619.1	618.3	618.3
15°	613.2	608.1	603.9	602.2	602.2	600.5	598.0	601.3	599.7	600.5	604.7
17.5°	577.6	575.1	572.6	571.7	572.6	574.2	575.9	581.0	581.0	583.6	587.8
20°	546.3	544.6	546.3	546.3	547.1	550.5	553.9	558.2	559.8	562.4	568.3
22.5°	515.8	515.8	517.5	520.0	519.2	525.1	526.0	533.6	533.6	538.7	543.8
25°	486.2	486.2	487.9	488.7	490.4	493.8	497.2	503.1	504.8	509.9	514.1
27.5°	457.4	456.5	456.5	457.4	459.1	463.3	465.0	471.8	474.3	477.7	481.9
30°	425.2	424.3	426.0	427.7	426.9	431.1	433.6	438.7	440.4	443.8	447.2
32.5°	394.7	394.7	394.7	396.4	396.4	399.8	399.8	405.7	405.7	408.2	411.6
35°	363.3	363.3	364.2	365.0	365.9	366.7	367.6	371.0	371.8	372.7	374.4
37.5°	333.7	332.9	333.7	333.7	332.0	335.4	335.4	338.8	336.2	338.8	339.6
40°	303.2	303.2	302.4	302.4	302.4	304.1	302.4	304.9	303.2	304.9	304.1
42.5°	271.9	271.9	270.2	271.9	271.0	271.0	271.0	272.7	270.2	271.9	272.7
45°	240.5	239.7	239.7	238.8	238.8	238.8	239.7	239.7	238.8	240.5	240.5
47.5°	210.0	209.2	209.2	209.2	209.2	210.0	207.5	209.2	207.5	207.5	207.5
50°	183.8	182.9	182.1	181.3	180.4	180.4	179.6	179.6	177.9	177.0	176.2
52.5°	158.4	157.5	155.8	155.8	155.0	154.1	151.6	151.6	149.1	148.2	148.2
55°	135.5	133.0	132.1	130.4	130.4	128.7	127.0	125.4	122.8	121.1	121.1
57.5°	114.3	111.8	110.1	109.3	108.4	106.7	103.3	102.5	99.1	98.2	97.4
60°	95.7	93.2	90.6	88.9	88.1	85.5	82.2	80.5	78.8	76.2	73.7
62.5°	77.9	75.4	72.0	71.1	69.5	66.9	64.4	61.8	60.1	57.6	55.9
65°	62.7	60.1	57.6	55.9	54.2	51.7	49.1	46.6	44.9	44.0	43.2
67.5°	50.8	47.4	44.9	44.0	42.3	40.7	38.1	37.3	35.6	35.6	35.6
70°	39.8	37.3	34.7	33.9	33.0	31.3	29.6	29.6	29.6	29.6	29.6
72.5°	29.6	27.9	25.4	24.6	23.7	22.9	21.2	22.0	21.2	21.2	21.2
75°	18.6	16.9	15.2	14.4	13.6	12.7	11.9	11.0	10.2	9.3	9.3
77.5°	10.2	8.5	7.6	6.8	6.8	5.9	5.1	5.1	4.2	4.2	4.2
80°	5.9	5.1	4.2	3.4	3.4	2.5	2.5	2.5	2.5	1.7	1.7
82.5°	3.4	2.5	1.7	1.7	1.7	1.7	0.8	0.8	0.8	0.8	0.8
85°	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	652.2	652.2	652.2	652.2	652.2	652.2	652.2	652.2
2.5°	647.1	649.6	647.1	649.6	649.6	649.6	649.6	647.1
5°	642.8	644.5	642.0	643.7	644.5	643.7	643.7	641.2
7.5°	635.2	636.9	634.4	636.9	637.8	636.9	636.1	634.4
10°	627.6	628.5	625.9	627.6	629.3	629.3	628.5	625.9
12.5°	615.7	618.3	615.7	617.4	619.1	620.0	620.0	617.4
15°	602.2	606.4	604.7	607.3	609.8	610.7	610.7	609.8
17.5°	588.6	592.9	590.3	594.6	597.1	598.8	599.7	598.0
20°	569.2	574.2	572.6	575.9	579.3	581.9	581.9	579.3
22.5°	543.8	550.5	549.7	552.2	556.5	557.3	559.0	557.3
25°	515.8	520.9	520.0	522.6	527.7	527.7	528.5	528.5
27.5°	483.6	488.7	487.9	489.5	492.9	493.8	494.6	492.9
30°	448.9	451.4	451.4	454.0	456.5	457.4	457.4	454.8
32.5°	410.8	414.2	415.9	415.0	417.6	419.2	418.4	418.4
35°	376.1	376.9	377.7	378.6	379.4	381.1	379.4	378.6
37.5°	338.8	341.3	339.6	341.3	343.0	342.2	341.3	341.3
40°	304.9	305.8	304.1	305.8	306.6	306.6	306.6	304.9
42.5°	271.0	272.7	271.0	272.7	272.7	272.7	272.7	271.9
45°	237.2	238.8	238.8	239.7	239.7	238.8	238.8	238.8
47.5°	205.8	207.5	205.8	207.5	208.4	206.7	206.7	206.7
50°	176.2	175.3	175.3	176.2	176.2	176.2	176.2	175.3
52.5°	145.7	146.5	146.5	146.5	147.4	146.5	147.4	147.4
55°	119.4	119.4	119.4	120.3	119.4	119.4	120.3	121.1
57.5°	95.7	94.9	94.0	94.0	94.9	94.0	94.0	94.0
60°	73.7	72.8	72.0	72.0	72.0	72.0	72.0	71.1
62.5°	55.1	55.1	55.1	55.9	55.9	55.9	55.9	56.7
65°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.9
67.5°	35.6	35.6	35.6	36.4	36.4	36.4	36.4	36.4
70°	29.6	29.6	30.5	29.6	30.5	30.5	30.5	30.5
72.5°	20.3	20.3	20.3	20.3	20.3	19.5	20.3	19.5
75°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	7.6
77.5°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4
80°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7
82.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.0	0.0	0.0
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)