

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: P252357

Luminaire Tested: **LD6B15D010 EU6B10209035 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252357
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 EU6B10209035 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3500K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1149.0 lumens
Efficiency: N/A
Efficacy: 79.8 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.03 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

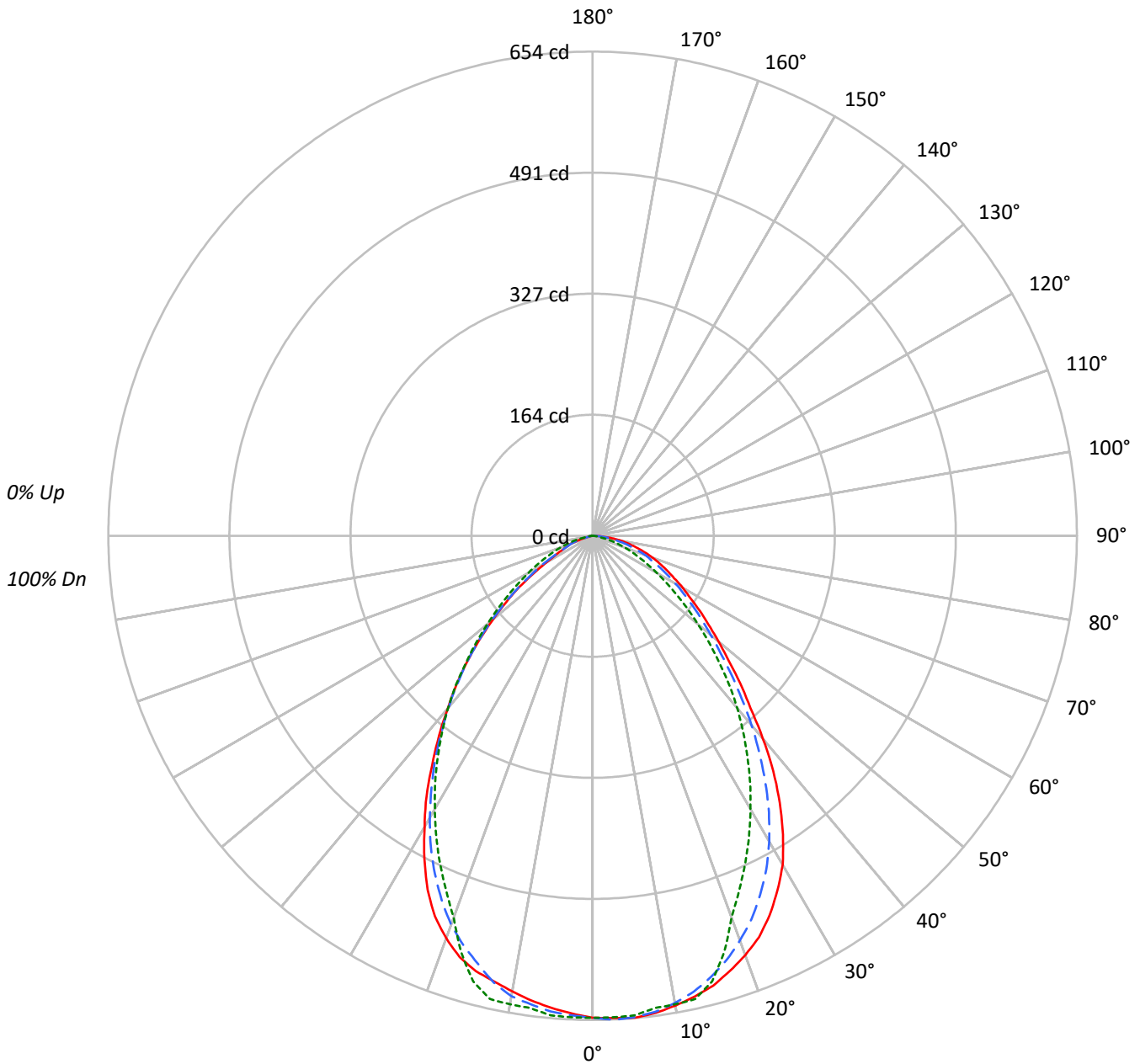
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	42472	42472	42472
5°	42804	42581	41913
10°	42683	42570	41391
15°	42491	42085	41120
20°	41851	38095	40150
25°	40715	35122	37979
30°	38661	32100	34201
35°	35083	29022	30098
40°	30455	25848	25924
45°	25982	22236	21996
50°	22481	18797	17762
55°	20098	15674	13752
60°	18320	13022	9264
65°	17104	10698	6916
70°	16290	8717	5799
75°	15351	6176	1916
80°	14615	3193	639
85°	12052	1871	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.5	5.4
10°-20°	171.9	15.0
20°-30°	237.3	20.7
30°-40°	241.5	21.0
40°-50°	194.1	16.9
50°-60°	129.1	11.2
60°-70°	73.5	6.4
70°-80°	33.0	2.9
80°-90°	6.9	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°	470.8	41.0
0°-40°	712.3	62.0
0°-60°	1035.5	90.1
0°-90°	1149.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1149.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	651	651	651	651	651	
5°	654	653	650	645	640	62
15°	629	617	623	599	609	177
25°	566	535	488	504	528	259
35°	440	407	364	371	378	274
45°	282	265	241	238	238	218
55°	177	165	138	123	121	159
65°	111	99	69	45	45	110
75°	61	51	24	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°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	651.9	655.3	654.4	653.6	654.4	653.6	651.9	651.9	650.2	650.2	654.4
5°	653.6	655.3	654.4	653.6	653.6	654.4	651.0	651.0	649.3	648.5	652.7
7.5°	650.2	652.7	651.0	651.0	650.2	651.0	647.7	647.7	645.1	644.3	648.5
10°	644.3	647.7	646.0	646.0	646.0	644.3	642.6	641.7	639.2	638.4	640.9
12.5°	637.5	640.0	639.2	637.5	637.5	637.5	634.1	633.3	629.9	628.2	630.7
15°	629.1	630.7	629.9	629.1	627.4	627.4	624.0	622.3	618.9	615.5	617.2
17.5°	616.4	618.9	617.2	616.4	613.8	613.8	610.4	608.8	603.7	600.3	601.1
20°	602.8	603.7	602.8	601.1	598.6	597.8	594.4	591.0	586.8	582.5	581.7
22.5°	586.8	587.6	585.1	583.4	580.9	580.0	575.8	573.2	566.5	561.4	560.6
25°	565.6	566.5	566.5	562.3	560.6	558.9	554.6	550.4	544.5	537.7	535.2
27.5°	540.3	542.8	541.1	536.9	533.5	532.7	528.4	525.1	517.4	511.5	508.1
30°	513.2	512.4	511.5	509.0	503.9	503.1	498.8	494.6	488.7	481.1	476.9
32.5°	478.6	478.6	477.7	475.2	470.1	468.4	465.0	460.0	453.2	447.3	443.0
35°	440.5	441.3	440.5	435.4	432.0	430.4	428.7	422.7	416.8	410.1	406.7
37.5°	400.8	398.2	399.1	394.8	390.6	392.3	387.2	384.7	377.9	372.9	369.5
40°	357.6	359.3	356.0	354.3	351.7	349.2	349.2	345.0	341.6	335.7	334.0
42.5°	315.4	317.9	317.1	315.4	312.0	312.8	308.6	306.9	302.7	300.2	297.6
45°	281.6	281.6	281.6	279.9	279.0	277.3	274.8	272.3	269.7	266.3	264.6
47.5°	248.6	248.6	249.4	247.7	246.0	245.2	243.5	243.5	239.3	235.9	234.2
50°	221.5	221.5	221.5	219.8	218.1	218.1	216.4	214.8	212.2	209.7	208.0
52.5°	197.0	197.0	197.0	195.3	194.5	193.6	192.8	191.9	188.5	186.9	185.2
55°	176.7	175.9	175.9	175.0	173.3	173.3	172.5	170.8	168.3	165.7	164.9
57.5°	156.4	157.3	156.4	156.4	154.7	154.7	153.0	152.2	149.7	148.0	146.3
60°	140.4	140.4	140.4	139.5	137.8	138.7	137.0	136.1	133.6	131.1	129.4
62.5°	124.3	125.1	125.1	124.3	122.6	122.6	121.8	120.9	118.4	115.8	113.3
65°	110.8	110.8	110.8	109.9	109.1	109.1	108.2	107.4	104.8	101.5	98.9
67.5°	98.1	97.2	97.2	97.2	96.4	95.5	94.7	93.9	91.3	88.8	85.4
70°	85.4	85.4	85.4	84.5	82.9	83.7	82.9	82.0	79.5	76.9	74.4
72.5°	73.6	73.6	72.7	71.9	71.9	71.0	71.0	70.2	67.6	64.3	61.7
75°	60.9	60.9	60.9	60.9	59.2	60.0	58.3	57.5	55.8	53.3	50.7
77.5°	49.9	49.9	49.9	49.0	48.2	48.2	47.3	46.5	44.0	42.3	38.9
80°	38.9	38.9	38.9	38.9	38.0	37.2	36.4	35.5	33.8	31.3	28.7
82.5°	28.7	28.7	27.9	27.9	27.9	27.1	26.2	25.4	23.7	22.0	20.3
85°	16.1	16.9	16.9	15.2	16.1	15.2	15.2	13.5	13.5	11.8	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°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	651.0	650.2	653.6	653.6	648.5	651.0	651.9	650.2	650.2	651.0	648.5
5°	649.3	647.7	651.0	651.9	646.8	649.3	650.2	648.5	649.3	650.2	646.8
7.5°	643.4	643.4	646.0	646.8	641.7	644.3	644.3	642.6	643.4	643.4	640.9
10°	637.5	635.0	637.5	637.5	633.3	634.1	635.8	635.0	638.4	642.6	642.6
12.5°	626.5	624.0	628.2	628.2	625.7	629.1	633.3	635.8	639.2	640.9	635.8
15°	613.0	613.8	621.4	627.4	624.8	629.9	634.1	632.4	628.2	623.1	615.5
17.5°	595.2	592.7	599.5	602.8	599.5	601.1	604.5	601.1	594.4	590.2	580.0
20°	574.9	568.2	568.2	566.5	560.6	560.6	559.7	553.8	551.3	548.7	544.5
22.5°	552.1	544.5	542.0	536.9	531.8	531.0	528.4	522.5	519.1	517.4	512.4
25°	525.9	519.1	514.9	509.8	502.2	500.5	498.0	492.1	490.4	487.9	483.6
27.5°	498.8	490.4	484.5	479.4	472.6	471.8	466.7	462.5	459.1	457.4	454.0
30°	467.6	458.3	454.0	447.3	442.2	440.5	436.3	430.4	427.8	426.1	423.6
32.5°	432.9	425.3	421.1	415.1	408.4	409.2	404.1	399.1	397.4	395.7	393.2
35°	399.1	391.5	386.4	381.3	377.1	375.4	372.0	367.8	365.3	364.4	362.7
37.5°	361.9	356.0	351.7	346.7	343.3	341.6	339.9	335.7	334.0	334.0	330.6
40°	325.5	320.4	317.1	314.5	310.3	309.5	307.8	305.2	304.4	303.5	301.0
42.5°	292.5	285.8	283.2	281.6	279.0	277.3	276.5	274.8	273.9	273.1	270.6
45°	261.3	255.3	252.8	251.1	248.6	247.7	246.9	244.3	242.7	241.0	240.1
47.5°	230.8	226.6	225.7	221.5	219.8	218.1	216.4	214.8	213.9	213.1	209.7
50°	204.6	202.1	197.8	195.3	193.6	192.8	189.4	186.9	186.0	185.2	182.6
52.5°	180.9	177.6	175.0	170.8	169.9	168.3	166.6	163.2	161.5	160.6	158.1
55°	159.8	157.3	153.9	150.5	148.0	147.1	144.6	141.2	139.5	137.8	136.1
57.5°	142.0	137.8	134.4	131.1	129.4	126.8	124.3	122.6	120.1	117.5	115.0
60°	125.1	121.8	117.5	114.1	112.5	110.8	107.4	104.8	102.3	99.8	97.2
62.5°	109.1	105.7	101.5	98.1	96.4	94.7	91.3	88.8	86.2	83.7	80.3
65°	94.7	91.3	87.9	84.5	82.9	81.2	77.8	74.4	71.9	69.3	65.9
67.5°	82.9	78.6	75.2	71.9	70.2	68.5	65.1	62.6	59.2	56.6	53.3
70°	70.2	66.8	64.3	60.9	59.2	57.5	54.1	50.7	48.2	45.7	42.3
72.5°	59.2	55.0	52.4	49.0	47.3	46.5	43.1	40.6	38.0	34.7	32.1
75°	47.3	44.0	40.6	38.0	36.4	35.5	32.1	29.6	27.1	24.5	22.0
77.5°	36.4	33.8	30.4	27.9	26.2	25.4	22.0	19.4	16.9	15.2	12.7
80°	27.1	23.7	22.0	19.4	18.6	16.9	15.2	12.7	11.0	8.5	6.8
82.5°	18.6	16.1	14.4	12.7	11.8	11.0	9.3	7.6	5.9	5.1	4.2
85°	10.1	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°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	650.2	650.2	650.2	649.3	649.3	649.3	648.5	651.9	648.5	647.7	650.2
5°	649.3	647.7	647.7	647.7	647.7	646.8	646.0	647.7	645.1	644.3	644.3
7.5°	644.3	643.4	643.4	642.6	641.7	640.9	640.0	640.9	638.4	637.5	637.5
10°	645.1	643.4	643.4	640.9	639.2	636.7	634.1	635.0	631.6	629.1	629.1
12.5°	635.0	630.7	628.2	625.7	624.0	623.1	619.7	621.4	618.1	617.2	617.2
15°	612.1	607.1	602.8	601.1	601.1	599.5	596.9	600.3	598.6	599.5	603.7
17.5°	576.6	574.1	571.6	570.7	571.6	573.2	574.9	580.0	580.0	582.5	586.8
20°	545.3	543.7	545.3	545.3	546.2	549.6	553.0	557.2	558.9	561.4	567.3
22.5°	514.9	514.9	516.6	519.1	518.3	524.2	525.1	532.7	532.7	537.7	542.8
25°	485.3	485.3	487.0	487.9	489.5	492.9	496.3	502.2	503.9	509.0	513.2
27.5°	456.6	455.7	455.7	456.6	458.3	462.5	464.2	470.9	473.5	476.9	481.1
30°	424.4	423.6	425.3	427.0	426.1	430.4	432.9	438.0	439.7	443.0	446.4
32.5°	394.0	394.0	394.0	395.7	395.7	399.1	399.1	405.0	405.0	407.5	410.9
35°	362.7	362.7	363.6	364.4	365.3	366.1	366.9	370.3	371.2	372.0	373.7
37.5°	333.1	332.3	333.1	333.1	331.4	334.8	334.8	338.2	335.7	338.2	339.0
40°	302.7	302.7	301.8	301.8	301.8	303.5	301.8	304.4	302.7	304.4	303.5
42.5°	271.4	271.4	269.7	271.4	270.6	270.6	270.6	272.3	269.7	271.4	272.3
45°	240.1	239.3	239.3	238.4	238.4	238.4	239.3	239.3	238.4	240.1	240.1
47.5°	209.7	208.8	208.8	208.8	208.8	209.7	207.1	208.8	207.1	207.1	207.1
50°	183.5	182.6	181.8	180.9	180.1	180.1	179.2	179.2	177.6	176.7	175.9
52.5°	158.1	157.3	155.6	155.6	154.7	153.9	151.3	151.3	148.8	148.0	148.0
55°	135.3	132.7	131.9	130.2	130.2	128.5	126.8	125.1	122.6	120.9	120.9
57.5°	114.1	111.6	109.9	109.1	108.2	106.5	103.2	102.3	98.9	98.1	97.2
60°	95.5	93.0	90.5	88.8	87.9	85.4	82.0	80.3	78.6	76.1	73.6
62.5°	77.8	75.2	71.9	71.0	69.3	66.8	64.3	61.7	60.0	57.5	55.8
65°	62.6	60.0	57.5	55.8	54.1	51.6	49.0	46.5	44.8	44.0	43.1
67.5°	50.7	47.3	44.8	44.0	42.3	40.6	38.0	37.2	35.5	35.5	35.5
70°	39.7	37.2	34.7	33.8	33.0	31.3	29.6	29.6	29.6	29.6	29.6
72.5°	29.6	27.9	25.4	24.5	23.7	22.8	21.1	22.0	21.1	21.1	21.1
75°	18.6	16.9	15.2	14.4	13.5	12.7	11.8	11.0	10.1	9.3	9.3
77.5°	10.1	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°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0
2.5°	646.0	648.5	646.0	648.5	648.5	648.5	648.5	646.0
5°	641.7	643.4	640.9	642.6	643.4	642.6	642.6	640.0
7.5°	634.1	635.8	633.3	635.8	636.7	635.8	635.0	633.3
10°	626.5	627.4	624.8	626.5	628.2	628.2	627.4	624.8
12.5°	614.7	617.2	614.7	616.4	618.1	618.9	618.9	616.4
15°	601.1	605.4	603.7	606.2	608.8	609.6	609.6	608.8
17.5°	587.6	591.8	589.3	593.5	596.1	597.8	598.6	596.9
20°	568.2	573.2	571.6	574.9	578.3	580.9	580.9	578.3
22.5°	542.8	549.6	548.7	551.3	555.5	556.3	558.0	556.3
25°	514.9	520.0	519.1	521.7	526.7	526.7	527.6	527.6
27.5°	482.8	487.9	487.0	488.7	492.1	492.9	493.8	492.1
30°	448.1	450.7	450.7	453.2	455.7	456.6	456.6	454.0
32.5°	410.1	413.4	415.1	414.3	416.8	418.5	417.7	417.7
35°	375.4	376.2	377.1	377.9	378.8	380.5	378.8	377.9
37.5°	338.2	340.7	339.0	340.7	342.4	341.6	340.7	340.7
40°	304.4	305.2	303.5	305.2	306.1	306.1	306.1	304.4
42.5°	270.6	272.3	270.6	272.3	272.3	272.3	272.3	271.4
45°	236.7	238.4	238.4	239.3	239.3	238.4	238.4	238.4
47.5°	205.5	207.1	205.5	207.1	208.0	206.3	206.3	206.3
50°	175.9	175.0	175.0	175.9	175.9	175.9	175.9	175.0
52.5°	145.4	146.3	146.3	146.3	147.1	146.3	147.1	147.1
55°	119.2	119.2	119.2	120.1	119.2	119.2	120.1	120.9
57.5°	95.5	94.7	93.9	93.9	94.7	93.9	93.9	93.9
60°	73.6	72.7	71.9	71.9	71.9	71.9	71.9	71.0
62.5°	55.0	55.0	55.0	55.8	55.8	55.8	55.8	56.6
65°	44.0	44.0	44.0	44.0	44.0	44.0	44.0	44.8
67.5°	35.5	35.5	35.5	36.4	36.4	36.4	36.4	36.4
70°	29.6	29.6	30.4	29.6	30.4	30.4	30.4	30.4
72.5°	20.3	20.3	20.3	20.3	20.3	19.4	20.3	19.4
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)