

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: P252234

Luminaire Tested: **LD6B10D010 EU6B10208035 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252234
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-7)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10208035 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE 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: 1007.0 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Spacing Criteria (0/90/45): 1.17 / 1.18 / 1.16
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

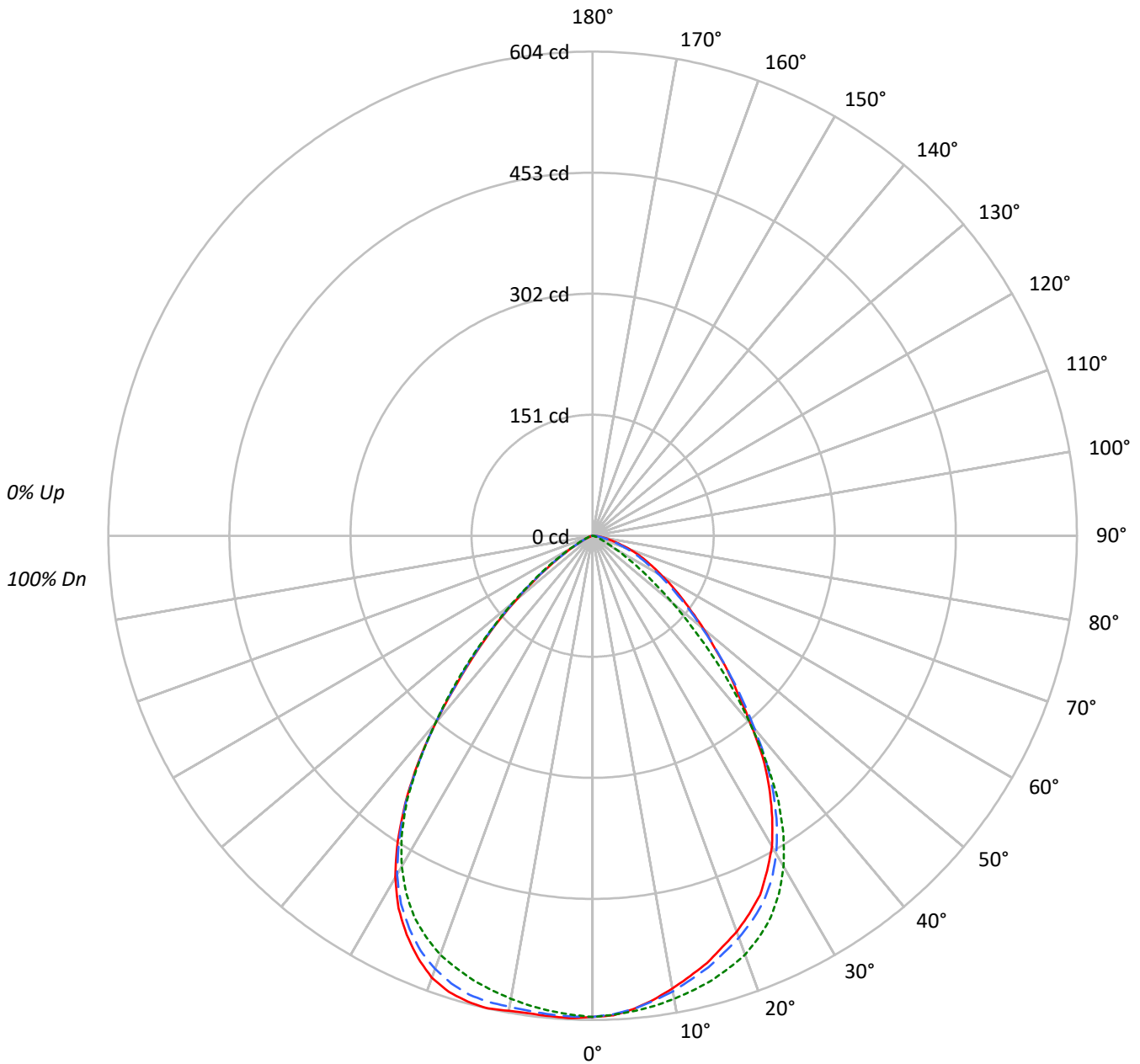
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									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	112	108	105	103	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	85	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	77	74	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	66	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	55	78	67	60	55	66	59	55	64	59	54	63	58	54	52																			
7	74	63	55	50	73	62	55	50	61	54	50	59	54	49	58	53	49	47																			
8	70	58	51	46	68	57	50	46	56	50	45	55	49	45	54	49	45	43																			
9	65	54	47	42	64	53	46	42	52	46	42	51	46	41	50	45	41	40																			
10	62	50	43	39	61	50	43	38	49	43	38	48	42	38	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39157	39157	39157
5°	38790	38980	39405
10°	37986	38854	39861
15°	37263	38776	40640
20°	36491	38602	40719
25°	35589	37835	39505
30°	33697	35881	37079
35°	30599	32160	32447
40°	26112	25993	25865
45°	21940	19468	18859
50°	18320	13174	12504
55°	15424	8076	7336
60°	13048	4254	3693
65°	11300	2238	1791
70°	9404	1373	973
75°	6932	907	555
80°	5448	526	263
85°	4342	524	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.6	5.6
10°-20°	162.0	16.1
20°-30°	239.2	23.8
30°-40°	246.5	24.5
40°-50°	170.3	16.9
50°-60°	83.9	8.3
60°-70°	34.0	3.4
70°-80°	12.1	1.2
80°-90°	2.5	0.2
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°	457.7	45.5
0°-40°	704.2	69.9
0°-60°	958.4	95.2
0°-90°	1007.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1007.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	600	600	600	600	600	
5°	592	592	595	600	602	56
15°	552	558	574	593	602	155
25°	494	504	526	541	549	226
35°	384	394	404	406	407	238
45°	238	239	211	208	204	184
55°	136	130	71	67	64	122
65°	73	66	14	12	12	73
75°	28	23	4	2	2	31
85°	6	4	1	0	0	7
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°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2
2.5°	598.8	596.6	598.1	595.2	598.8	595.2	595.9	596.6	595.9	596.6	597.3
5°	592.3	590.1	592.3	588.6	592.3	590.1	590.1	590.8	590.8	591.5	592.3
7.5°	583.6	581.4	583.6	579.9	584.3	582.1	582.1	583.6	582.8	583.6	585.0
10°	573.4	570.5	572.7	570.5	574.9	572.0	573.4	573.4	573.4	575.6	577.0
12.5°	562.5	559.6	562.5	558.9	563.3	561.1	561.8	564.0	564.7	566.2	566.9
15°	551.7	548.0	549.5	547.3	551.7	549.5	550.2	553.1	553.1	555.3	557.5
17.5°	537.9	535.0	537.9	535.0	538.6	537.2	538.6	540.8	540.8	543.0	545.1
20°	525.6	522.7	524.8	522.7	527.0	524.8	525.6	528.5	529.2	531.4	533.5
22.5°	510.3	508.2	509.6	507.4	511.8	510.3	511.1	514.0	514.7	516.1	519.8
25°	494.4	490.0	492.2	490.8	495.1	492.9	494.4	497.3	498.7	500.9	503.8
27.5°	471.2	469.0	470.5	470.5	474.1	471.9	472.6	475.5	477.7	479.9	483.5
30°	447.3	443.7	445.1	445.8	448.7	447.3	448.7	451.6	452.4	455.2	458.1
32.5°	416.8	415.4	418.3	416.8	418.3	418.3	419.0	421.2	422.6	424.1	427.7
35°	384.2	381.3	384.2	382.8	386.4	384.2	386.4	388.6	388.6	391.5	393.6
37.5°	348.7	345.1	346.5	346.5	348.0	347.2	347.2	350.9	351.6	353.8	355.9
40°	306.6	305.2	308.1	307.4	308.1	308.1	308.8	311.0	312.4	313.2	313.9
42.5°	268.9	269.7	270.4	270.4	270.4	270.4	270.4	273.3	272.6	274.7	275.5
45°	237.8	234.9	236.3	235.6	237.8	235.6	237.8	239.9	238.5	240.7	239.2
47.5°	205.9	205.9	205.9	205.2	206.6	205.9	207.3	208.1	208.1	208.1	207.3
50°	180.5	178.3	179.1	179.1	179.8	179.1	180.5	181.2	181.2	179.8	176.9
52.5°	155.9	155.1	155.1	156.6	156.6	155.9	155.9	155.9	155.9	153.7	152.2
55°	135.6	134.1	134.8	134.8	134.8	134.8	135.6	134.8	134.8	132.7	130.5
57.5°	117.4	116.0	116.0	116.0	116.7	116.0	116.0	116.0	115.3	113.1	110.2
60°	100.0	99.3	100.0	100.0	100.8	100.0	100.0	100.0	98.6	96.4	93.5
62.5°	85.5	85.5	85.5	86.3	86.3	85.5	85.5	84.8	84.1	81.2	78.3
65°	73.2	72.5	73.2	73.2	73.9	73.9	73.2	72.5	71.8	68.9	66.0
67.5°	60.9	60.2	60.9	60.9	61.6	60.9	60.9	60.9	58.7	57.3	54.4
70°	49.3	48.6	48.6	48.6	49.3	47.8	48.6	48.6	47.1	44.9	42.0
72.5°	37.7	37.7	37.7	37.7	37.7	37.7	37.0	37.0	35.5	33.3	31.9
75°	27.5	27.5	28.3	28.3	27.5	27.5	27.5	26.8	26.1	24.6	23.2
77.5°	20.3	20.3	20.3	20.3	19.6	19.6	19.6	18.8	18.1	17.4	15.9
80°	14.5	14.5	14.5	13.8	14.5	13.8	13.8	13.8	12.3	11.6	10.9
82.5°	10.1	9.4	9.4	9.4	9.4	9.4	9.4	8.7	8.7	8.0	7.2
85°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.1	4.3	4.3
87.5°	2.9	3.6	3.6	3.6	3.6	3.6	3.6	2.9	2.9	2.9	2.2
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°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2
2.5°	597.3	597.3	598.8	596.6	600.2	598.1	597.3	601.0	598.8	598.1	599.5
5°	592.3	593.0	593.7	592.3	595.9	593.7	593.7	597.3	595.9	595.2	597.3
7.5°	585.7	586.5	587.9	587.2	590.1	588.6	589.4	593.0	591.5	591.5	593.7
10°	577.8	579.2	580.7	580.7	584.3	582.8	582.8	587.2	585.7	586.5	589.4
12.5°	568.3	570.5	572.7	573.4	577.0	574.9	575.6	580.7	579.9	580.7	583.6
15°	558.2	561.1	563.3	563.3	567.6	565.4	567.6	572.7	571.2	574.1	577.8
17.5°	546.6	549.5	552.4	553.1	557.5	556.0	558.9	564.0	564.0	565.4	569.8
20°	535.7	539.3	540.8	543.0	547.3	546.6	548.0	553.8	553.8	556.0	560.4
22.5°	521.2	524.8	527.7	529.9	533.5	533.5	535.7	540.8	540.8	542.2	546.6
25°	505.3	509.6	511.8	514.0	517.6	516.9	519.0	523.4	524.1	525.6	529.9
27.5°	485.0	488.6	491.5	492.9	498.0	495.1	497.3	502.4	501.6	503.1	506.7
30°	459.6	463.2	466.1	466.1	470.5	470.5	472.6	474.8	474.8	476.3	479.2
32.5°	429.9	434.2	434.2	436.4	439.3	436.4	439.3	442.2	440.8	442.9	445.1
35°	395.8	398.0	398.7	398.7	400.9	400.2	399.4	401.6	400.2	403.8	406.0
37.5°	354.5	357.4	355.9	357.4	356.7	354.5	354.5	358.1	355.2	355.9	358.1
40°	314.6	314.6	313.9	310.3	311.0	308.8	308.1	308.8	305.9	305.2	308.1
42.5°	273.3	272.6	270.4	265.3	266.0	262.4	259.5	259.5	258.1	257.3	258.1
45°	236.3	234.1	230.5	224.7	223.3	220.4	214.6	213.1	211.0	211.0	211.7
47.5°	202.3	199.4	193.6	187.0	183.4	179.8	174.0	171.8	168.2	166.7	168.2
50°	174.0	168.9	161.7	152.2	148.6	144.3	138.5	134.8	131.2	129.8	129.0
52.5°	147.9	140.6	133.4	121.8	118.9	114.5	106.6	102.9	99.3	96.4	96.4
55°	125.4	118.9	108.7	97.9	93.5	89.2	81.2	76.1	72.5	71.0	69.6
57.5°	105.1	97.9	88.4	76.8	72.5	68.1	60.2	55.1	51.5	49.3	47.8
60°	88.4	80.5	71.0	60.9	55.8	51.5	43.5	38.4	34.8	32.6	31.2
62.5°	72.5	66.0	56.5	47.1	42.8	38.4	31.9	26.8	23.2	21.7	19.6
65°	60.9	54.4	45.7	37.7	34.1	29.7	23.9	19.6	16.7	14.5	13.0
67.5°	49.3	44.2	37.0	29.7	26.1	23.2	18.1	14.5	11.6	10.1	9.4
70°	39.1	34.1	28.3	22.5	20.3	17.4	13.8	10.1	8.7	7.2	6.5
72.5°	29.0	25.4	21.0	16.7	14.5	13.0	9.4	8.0	5.8	5.1	4.3
75°	21.0	18.1	15.2	11.6	10.1	9.4	7.2	5.1	4.3	3.6	2.9
77.5°	14.5	13.0	10.1	8.0	7.2	6.5	5.1	3.6	2.9	2.2	2.2
80°	9.4	8.0	6.5	5.1	5.1	4.3	2.9	2.2	2.2	1.4	1.4
82.5°	5.8	5.1	4.3	3.6	2.9	2.9	2.2	1.4	1.4	0.7	0.7
85°	3.6	2.9	2.2	2.2	1.4	1.4	1.4	0.7	0.7	0.7	0.7
87.5°	1.4	1.4	1.4	0.7	0.7	0.7	0.7	0.0	0.0	0.0	0.0
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°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2
2.5°	599.5	599.5	601.0	598.8	600.2	600.2	601.7	598.8	600.2	601.0	602.4
5°	596.6	597.3	598.8	598.1	598.8	598.8	600.2	596.6	599.5	599.5	601.7
7.5°	593.7	593.7	595.2	594.4	595.9	596.6	598.1	595.2	598.1	598.1	600.2
10°	590.1	590.1	592.3	591.5	593.7	594.4	596.6	593.7	596.6	597.3	599.5
12.5°	585.0	585.7	587.9	587.9	590.1	591.5	593.7	592.3	595.9	596.6	599.5
15°	579.2	580.7	583.6	582.8	585.0	587.2	590.1	587.9	593.0	594.4	597.3
17.5°	572.0	573.4	575.6	575.6	577.8	579.2	582.8	581.4	585.7	586.5	590.1
20°	561.1	563.3	566.2	565.4	567.6	569.1	572.0	570.5	574.9	576.3	579.9
22.5°	548.0	549.5	551.7	551.7	553.8	555.3	558.2	556.0	560.4	561.1	564.0
25°	530.6	532.1	533.5	534.3	536.4	537.2	538.6	537.2	540.8	541.5	545.1
27.5°	508.2	508.9	511.1	511.1	512.5	513.2	515.4	512.5	517.6	517.6	519.8
30°	481.3	480.6	483.5	482.1	483.5	483.5	485.7	484.2	487.9	486.4	488.6
32.5°	445.8	447.3	447.3	445.8	448.7	448.0	448.0	446.6	448.7	449.5	450.9
35°	404.5	406.7	406.7	407.4	408.1	406.0	406.7	402.3	406.0	406.7	407.4
37.5°	359.6	357.4	358.8	356.7	360.3	355.9	355.9	353.0	355.9	355.9	356.7
40°	308.1	307.4	308.8	307.4	306.6	305.9	304.5	302.3	305.2	303.7	305.9
42.5°	259.5	258.8	258.8	257.3	256.6	256.6	255.2	253.7	253.0	253.0	256.6
45°	209.5	211.0	209.5	208.8	210.2	208.8	209.5	206.6	208.1	206.6	208.1
47.5°	167.5	168.2	166.7	165.3	167.5	165.3	165.3	163.1	166.0	166.0	164.6
50°	129.8	129.0	127.6	129.0	128.3	128.3	128.3	126.1	127.6	125.4	126.9
52.5°	95.7	95.0	95.0	94.2	95.0	94.2	94.2	93.5	93.5	92.8	93.5
55°	69.6	68.9	67.4	67.4	67.4	68.1	67.4	66.7	66.7	66.0	66.7
57.5°	47.1	45.7	45.7	45.7	45.7	44.9	44.9	44.2	44.9	44.2	44.9
60°	30.4	30.4	29.0	29.0	29.0	29.0	29.0	28.3	29.0	29.0	29.0
62.5°	18.8	18.8	18.1	17.4	18.1	17.4	17.4	17.4	18.1	17.4	18.1
65°	12.3	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
67.5°	8.7	8.0	8.0	8.0	8.0	8.0	8.0	7.2	8.0	8.0	8.0
70°	5.8	5.8	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	2.9	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	2.2	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	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	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	600.2	600.2	600.2	600.2	600.2	600.2	600.2	600.2
2.5°	600.2	601.0	599.5	600.2	598.8	600.2	601.0	602.4
5°	598.8	599.5	598.1	599.5	598.1	599.5	600.2	601.7
7.5°	597.3	598.8	597.3	598.8	597.3	598.8	599.5	601.0
10°	597.3	599.5	598.1	600.2	598.1	599.5	601.0	601.7
12.5°	597.3	599.5	598.8	600.2	599.5	601.0	602.4	603.9
15°	595.9	598.1	596.6	598.8	598.1	598.8	601.7	601.7
17.5°	587.9	590.1	590.1	591.5	591.5	593.7	595.2	596.6
20°	577.8	579.9	579.2	581.4	581.4	583.6	585.0	586.5
22.5°	562.5	565.4	564.7	566.9	566.2	567.6	570.5	569.8
25°	543.0	546.6	545.9	547.3	546.6	546.6	548.0	548.8
27.5°	519.0	521.2	520.5	521.9	520.5	521.9	523.4	524.1
30°	487.9	489.3	488.6	489.3	488.6	490.0	490.8	492.2
32.5°	450.2	452.4	450.2	451.6	450.9	450.9	453.8	452.4
35°	405.2	406.0	406.7	406.7	405.2	406.0	407.4	407.4
37.5°	355.2	358.8	354.5	356.7	355.9	355.9	355.9	358.1
40°	303.0	303.7	302.3	302.3	302.3	301.6	304.5	303.7
42.5°	253.7	254.4	253.7	251.5	252.3	252.3	254.4	251.5
45°	205.9	207.3	206.6	206.6	205.2	205.2	205.9	204.4
47.5°	163.1	164.6	162.4	163.1	161.7	163.1	162.4	163.8
50°	124.0	125.4	124.7	125.4	125.4	124.0	126.1	123.2
52.5°	92.8	93.5	92.8	92.1	91.3	91.3	92.8	92.1
55°	66.0	65.2	65.2	65.2	66.0	66.0	65.2	64.5
57.5°	44.2	44.2	43.5	43.5	44.2	42.8	43.5	42.8
60°	28.3	28.3	28.3	28.3	27.5	28.3	28.3	28.3
62.5°	17.4	17.4	17.4	17.4	17.4	17.4	17.4	17.4
65°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
67.5°	7.2	8.0	8.0	8.0	7.2	7.2	7.2	7.2
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.4	1.4	1.4	1.4	1.4	1.4	1.4	1.4
80°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
82.5°	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.7	0.7	0.7	0.7	0.7	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)