

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: P252235

Luminaire Tested: **LD6B10D010 EU6B10208040 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252235
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 EU6B10208040 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 4000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1018.0 lumens
Efficiency: N/A
Efficacy: 101.3 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

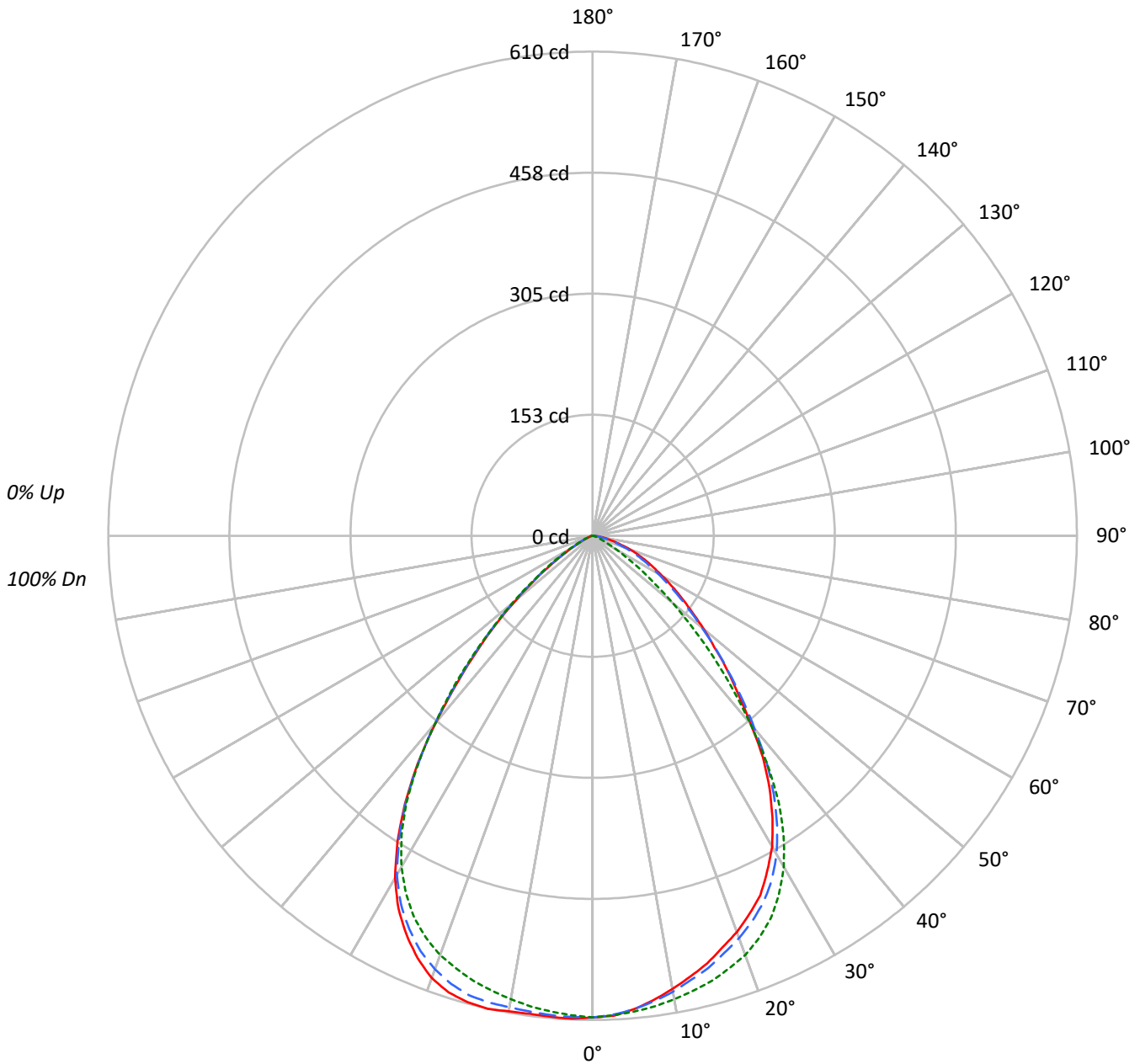
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	102	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°	39588	39588	39588
5°	39209	39405	39837
10°	38403	39278	40298
15°	37668	39201	41086
20°	36887	39025	41164
25°	35978	38246	39937
30°	34066	36273	37486
35°	30934	32511	32805
40°	26401	26274	26154
45°	22180	19680	19071
50°	18523	13316	12646
55°	15583	8167	7416
60°	13192	4306	3732
65°	11424	2269	1806
70°	9499	1392	973
75°	7008	933	555
80°	5523	564	263
85°	4416	524	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.2	5.6
10°-20°	163.7	16.1
20°-30°	241.8	23.8
30°-40°	249.2	24.5
40°-50°	172.1	16.9
50°-60°	84.8	8.3
60°-70°	34.4	3.4
70°-80°	12.3	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°	462.7	45.5
0°-40°	711.9	69.9
0°-60°	968.8	95.2
0°-90°	1018.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1018.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	607	607	607	607	607	
5°	599	599	602	606	608	57
15°	558	564	580	600	608	157
25°	500	509	531	547	555	228
35°	388	398	408	410	412	241
45°	240	242	213	210	207	186
55°	137	132	72	67	65	124
65°	74	67	15	12	12	74
75°	28	24	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°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8
2.5°	605.3	603.1	604.6	601.7	605.3	601.7	602.4	603.1	602.4	603.1	603.9
5°	598.7	596.5	598.7	595.1	598.7	596.5	596.5	597.3	597.3	598.0	598.7
7.5°	589.9	587.7	589.9	586.3	590.7	588.5	588.5	589.9	589.2	589.9	591.4
10°	579.7	576.7	578.9	576.7	581.1	578.2	579.7	579.7	579.7	581.9	583.3
12.5°	568.7	565.8	568.7	565.0	569.4	567.2	568.0	570.1	570.9	572.3	573.1
15°	557.7	554.0	555.5	553.3	557.7	555.5	556.2	559.2	559.2	561.4	563.6
17.5°	543.8	540.8	543.8	540.8	544.5	543.0	544.5	546.7	546.7	548.9	551.1
20°	531.3	528.4	530.6	528.4	532.8	530.6	531.3	534.2	535.0	537.2	539.4
22.5°	515.9	513.7	515.2	513.0	517.4	515.9	516.7	519.6	520.3	521.8	525.4
25°	499.8	495.4	497.6	496.1	500.5	498.3	499.8	502.7	504.2	506.4	509.3
27.5°	476.3	474.1	475.6	475.6	479.3	477.1	477.8	480.7	482.9	485.1	488.8
30°	452.2	448.5	450.0	450.7	453.6	452.2	453.6	456.6	457.3	460.2	463.2
32.5°	421.4	419.9	422.8	421.4	422.8	422.8	423.6	425.8	427.2	428.7	432.4
35°	388.4	385.5	388.4	386.9	390.6	388.4	390.6	392.8	392.8	395.7	397.9
37.5°	352.5	348.8	350.3	350.3	351.8	351.0	351.0	354.7	355.4	357.6	359.8
40°	310.0	308.5	311.5	310.7	311.5	311.5	312.2	314.4	315.9	316.6	317.3
42.5°	271.9	272.6	273.3	273.3	273.3	273.3	273.3	276.3	275.5	277.7	278.5
45°	240.4	237.4	238.9	238.2	240.4	238.2	240.4	242.6	241.1	243.3	241.8
47.5°	208.1	208.1	208.1	207.4	208.9	208.1	209.6	210.3	210.3	210.3	209.6
50°	182.5	180.3	181.0	181.0	181.7	181.0	182.5	183.2	183.2	181.7	178.8
52.5°	157.6	156.8	156.8	158.3	158.3	157.6	157.6	157.6	157.6	155.4	153.9
55°	137.0	135.6	136.3	136.3	136.3	136.3	137.0	136.3	136.3	134.1	131.9
57.5°	118.7	117.3	117.3	117.3	118.0	117.3	117.3	117.3	116.5	114.3	111.4
60°	101.1	100.4	101.1	101.1	101.9	101.1	101.1	101.1	99.7	97.5	94.5
62.5°	86.5	86.5	86.5	87.2	87.2	86.5	86.5	85.7	85.0	82.1	79.1
65°	74.0	73.3	74.0	74.0	74.7	74.7	74.0	73.3	72.6	69.6	66.7
67.5°	61.6	60.8	61.6	61.6	62.3	61.6	61.6	61.6	59.4	57.9	55.0
70°	49.8	49.1	49.1	49.1	49.8	48.4	49.1	49.1	47.6	45.4	42.5
72.5°	38.1	38.1	38.1	38.1	38.1	38.1	37.4	37.4	35.9	33.7	32.2
75°	27.8	27.8	28.6	28.6	27.8	27.8	27.8	27.1	26.4	24.9	23.5
77.5°	20.5	20.5	20.5	20.5	19.8	19.8	19.8	19.1	18.3	17.6	16.1
80°	14.7	14.7	14.7	13.9	14.7	13.9	13.9	13.9	12.5	11.7	11.0
82.5°	10.3	9.5	9.5	9.5	9.5	9.5	9.5	8.8	8.8	8.1	7.3
85°	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.9	5.1	4.4	4.4
87.5°	2.9	3.7	3.7	3.7	3.7	3.7	3.7	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°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8
2.5°	603.9	603.9	605.3	603.1	606.8	604.6	603.9	607.5	605.3	604.6	606.1
5°	598.7	599.5	600.2	598.7	602.4	600.2	600.2	603.9	602.4	601.7	603.9
7.5°	592.1	592.9	594.3	593.6	596.5	595.1	595.8	599.5	598.0	598.0	600.2
10°	584.1	585.5	587.0	587.0	590.7	589.2	589.2	593.6	592.1	592.9	595.8
12.5°	574.5	576.7	578.9	579.7	583.3	581.1	581.9	587.0	586.3	587.0	589.9
15°	564.3	567.2	569.4	569.4	573.8	571.6	573.8	578.9	577.5	580.4	584.1
17.5°	552.6	555.5	558.4	559.2	563.6	562.1	565.0	570.1	570.1	571.6	576.0
20°	541.6	545.2	546.7	548.9	553.3	552.6	554.0	559.9	559.9	562.1	566.5
22.5°	526.9	530.6	533.5	535.7	539.4	539.4	541.6	546.7	546.7	548.2	552.6
25°	510.8	515.2	517.4	519.6	523.2	522.5	524.7	529.1	529.8	531.3	535.7
27.5°	490.3	493.9	496.9	498.3	503.5	500.5	502.7	507.9	507.1	508.6	512.3
30°	464.6	468.3	471.2	471.2	475.6	475.6	477.8	480.0	480.0	481.5	484.4
32.5°	434.6	439.0	439.0	441.2	444.1	441.2	444.1	447.0	445.6	447.8	450.0
35°	400.1	402.3	403.1	403.1	405.3	404.5	403.8	406.0	404.5	408.2	410.4
37.5°	358.4	361.3	359.8	361.3	360.6	358.4	358.4	362.0	359.1	359.8	362.0
40°	318.1	318.1	317.3	313.7	314.4	312.2	311.5	312.2	309.3	308.5	311.5
42.5°	276.3	275.5	273.3	268.2	269.0	265.3	262.4	262.4	260.9	260.2	260.9
45°	238.9	236.7	233.0	227.2	225.7	222.8	216.9	215.5	213.3	213.3	214.0
47.5°	204.5	201.5	195.7	189.1	185.4	181.7	175.9	173.7	170.0	168.6	170.0
50°	175.9	170.8	163.4	153.9	150.2	145.8	140.0	136.3	132.6	131.2	130.4
52.5°	149.5	142.2	134.8	123.1	120.2	115.8	107.7	104.1	100.4	97.5	97.5
55°	126.8	120.2	109.9	98.9	94.5	90.1	82.1	76.9	73.3	71.8	70.4
57.5°	106.3	98.9	89.4	77.7	73.3	68.9	60.8	55.7	52.0	49.8	48.4
60°	89.4	81.3	71.8	61.6	56.4	52.0	44.0	38.8	35.2	33.0	31.5
62.5°	73.3	66.7	57.2	47.6	43.2	38.8	32.2	27.1	23.5	22.0	19.8
65°	61.6	55.0	46.2	38.1	34.4	30.0	24.2	19.8	16.9	14.7	13.2
67.5°	49.8	44.7	37.4	30.0	26.4	23.5	18.3	14.7	11.7	10.3	9.5
70°	39.6	34.4	28.6	22.7	20.5	17.6	13.9	10.3	8.8	7.3	6.6
72.5°	29.3	25.6	21.3	16.9	14.7	13.2	9.5	8.1	5.9	5.1	4.4
75°	21.3	18.3	15.4	11.7	10.3	9.5	7.3	5.1	4.4	3.7	2.9
77.5°	14.7	13.2	10.3	8.1	7.3	6.6	5.1	3.7	2.9	2.2	2.2
80°	9.5	8.1	6.6	5.1	5.1	4.4	2.9	2.2	2.2	1.5	1.5
82.5°	5.9	5.1	4.4	3.7	2.9	2.9	2.2	1.5	1.5	0.7	0.7
85°	3.7	2.9	2.2	2.2	1.5	1.5	1.5	0.7	0.7	0.7	0.7
87.5°	1.5	1.5	1.5	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°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8
2.5°	606.1	606.1	607.5	605.3	606.8	606.8	608.3	605.3	606.8	607.5	609.0
5°	603.1	603.9	605.3	604.6	605.3	605.3	606.8	603.1	606.1	606.1	608.3
7.5°	600.2	600.2	601.7	600.9	602.4	603.1	604.6	601.7	604.6	604.6	606.8
10°	596.5	596.5	598.7	598.0	600.2	600.9	603.1	600.2	603.1	603.9	606.1
12.5°	591.4	592.1	594.3	594.3	596.5	598.0	600.2	598.7	602.4	603.1	606.1
15°	585.5	587.0	589.9	589.2	591.4	593.6	596.5	594.3	599.5	600.9	603.9
17.5°	578.2	579.7	581.9	581.9	584.1	585.5	589.2	587.7	592.1	592.9	596.5
20°	567.2	569.4	572.3	571.6	573.8	575.3	578.2	576.7	581.1	582.6	586.3
22.5°	554.0	555.5	557.7	557.7	559.9	561.4	564.3	562.1	566.5	567.2	570.1
25°	536.4	537.9	539.4	540.1	542.3	543.0	544.5	543.0	546.7	547.4	551.1
27.5°	513.7	514.5	516.7	516.7	518.1	518.8	521.0	518.1	523.2	523.2	525.4
30°	486.6	485.9	488.8	487.3	488.8	488.8	491.0	489.5	493.2	491.7	493.9
32.5°	450.7	452.2	452.2	450.7	453.6	452.9	452.9	451.4	453.6	454.4	455.8
35°	408.9	411.1	411.1	411.9	412.6	410.4	411.1	406.7	410.4	411.1	411.9
37.5°	363.5	361.3	362.8	360.6	364.2	359.8	359.8	356.9	359.8	359.8	360.6
40°	311.5	310.7	312.2	310.7	310.0	309.3	307.8	305.6	308.5	307.1	309.3
42.5°	262.4	261.6	261.6	260.2	259.4	259.4	258.0	256.5	255.8	255.8	259.4
45°	211.8	213.3	211.8	211.1	212.5	211.1	211.8	208.9	210.3	208.9	210.3
47.5°	169.3	170.0	168.6	167.1	169.3	167.1	167.1	164.9	167.8	167.8	166.4
50°	131.2	130.4	129.0	130.4	129.7	129.7	129.7	127.5	129.0	126.8	128.2
52.5°	96.7	96.0	96.0	95.3	96.0	95.3	95.3	94.5	94.5	93.8	94.5
55°	70.4	69.6	68.2	68.2	68.2	68.9	68.2	67.4	67.4	66.7	67.4
57.5°	47.6	46.2	46.2	46.2	46.2	45.4	45.4	44.7	45.4	44.7	45.4
60°	30.8	30.8	29.3	29.3	29.3	29.3	29.3	28.6	29.3	29.3	29.3
62.5°	19.1	19.1	18.3	17.6	18.3	17.6	17.6	17.6	18.3	17.6	18.3
65°	12.5	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
67.5°	8.8	8.1	8.1	8.1	8.1	8.1	8.1	7.3	8.1	8.1	8.1
70°	5.9	5.9	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
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	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
80°	1.5	1.5	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°	606.8	606.8	606.8	606.8	606.8	606.8	606.8	606.8
2.5°	606.8	607.5	606.1	606.8	605.3	606.8	607.5	609.0
5°	605.3	606.1	604.6	606.1	604.6	606.1	606.8	608.3
7.5°	603.9	605.3	603.9	605.3	603.9	605.3	606.1	607.5
10°	603.9	606.1	604.6	606.8	604.6	606.1	607.5	608.3
12.5°	603.9	606.1	605.3	606.8	606.1	607.5	609.0	610.5
15°	602.4	604.6	603.1	605.3	604.6	605.3	608.3	608.3
17.5°	594.3	596.5	596.5	598.0	598.0	600.2	601.7	603.1
20°	584.1	586.3	585.5	587.7	587.7	589.9	591.4	592.9
22.5°	568.7	571.6	570.9	573.1	572.3	573.8	576.7	576.0
25°	548.9	552.6	551.8	553.3	552.6	552.6	554.0	554.8
27.5°	524.7	526.9	526.2	527.6	526.2	527.6	529.1	529.8
30°	493.2	494.7	493.9	494.7	493.9	495.4	496.1	497.6
32.5°	455.1	457.3	455.1	456.6	455.8	455.8	458.8	457.3
35°	409.7	410.4	411.1	411.1	409.7	410.4	411.9	411.9
37.5°	359.1	362.8	358.4	360.6	359.8	359.8	359.8	362.0
40°	306.3	307.1	305.6	305.6	305.6	304.9	307.8	307.1
42.5°	256.5	257.2	256.5	254.3	255.0	255.0	257.2	254.3
45°	208.1	209.6	208.9	208.9	207.4	207.4	208.1	206.7
47.5°	164.9	166.4	164.2	164.9	163.4	164.9	164.2	165.6
50°	125.3	126.8	126.0	126.8	126.8	125.3	127.5	124.6
52.5°	93.8	94.5	93.8	93.1	92.3	92.3	93.8	93.1
55°	66.7	66.0	66.0	66.0	66.7	66.7	66.0	65.2
57.5°	44.7	44.7	44.0	44.0	44.7	43.2	44.0	43.2
60°	28.6	28.6	28.6	28.6	27.8	28.6	28.6	28.6
62.5°	17.6	17.6	17.6	17.6	17.6	17.6	17.6	17.6
65°	11.7	11.7	11.7	11.7	11.7	11.7	11.7	11.7
67.5°	7.3	8.1	8.1	8.1	7.3	7.3	7.3	7.3
70°	5.1	5.1	5.1	5.1	5.1	5.1	5.1	5.1
72.5°	3.7	3.7	3.7	3.7	3.7	3.7	3.7	3.7
75°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2
77.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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)