

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: P252233

Luminaire Tested: **LD6B10D010 EU6B10208030 6LBSW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252233
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 EU6B10208030 6LBSW1H
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 80CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 982.0 lumens
Efficiency: N/A
Efficacy: 97.7 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

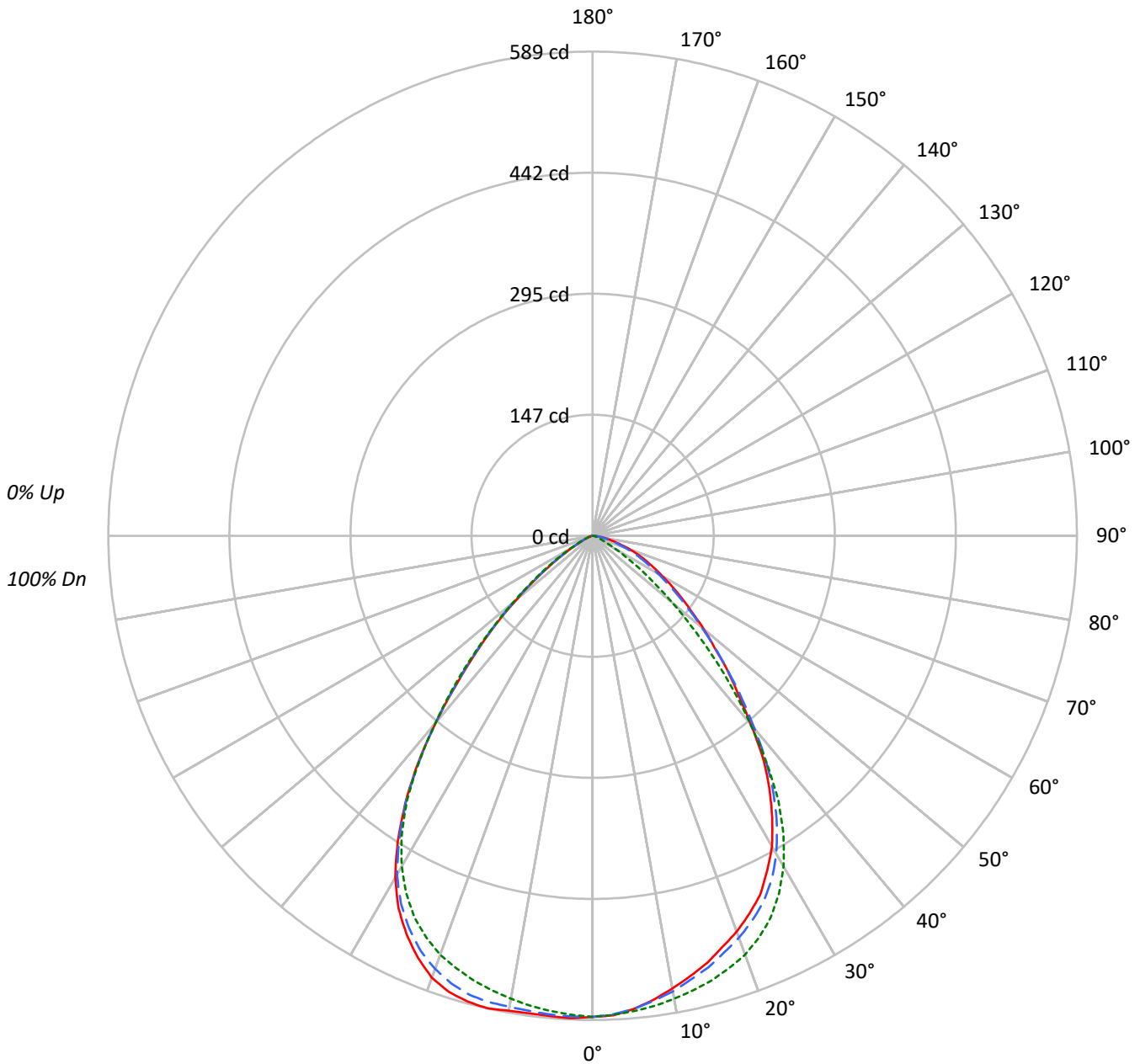
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	38185	38185	38185
5°	37827	38010	38423
10°	37045	37887	38867
15°	36338	37817	39627
20°	35582	37644	39706
25°	34704	36892	38519
30°	32860	34985	36160
35°	29843	31364	31643
40°	25465	25345	25226
45°	21396	18979	18397
50°	17863	12839	12200
55°	15037	7882	7154
60°	12735	4149	3601
65°	11022	2177	1744
70°	9175	1354	935
75°	6781	882	529
80°	5297	526	263
85°	4267	524	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.2	5.6
10°-20°	157.9	16.1
20°-30°	233.2	23.8
30°-40°	240.4	24.5
40°-50°	166.0	16.9
50°-60°	81.8	8.3
60°-70°	33.2	3.4
70°-80°	11.8	1.2
80°-90°	2.4	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°	446.4	45.5
0°-40°	686.7	69.9
0°-60°	934.6	95.2
0°-90°	982.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	982.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	585	585	585	585	585	
5°	578	578	580	585	587	55
15°	538	544	560	578	587	151
25°	482	491	512	527	535	220
35°	375	384	394	396	397	232
45°	232	233	206	203	199	179
55°	132	127	69	65	63	119
65°	71	64	14	11	11	71
75°	27	23	4	2	2	30
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°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	583.9	581.8	583.2	580.4	583.9	580.4	581.1	581.8	581.1	581.8	582.5
5°	577.6	575.4	577.6	574.0	577.6	575.4	575.4	576.1	576.1	576.8	577.6
7.5°	569.1	567.0	569.1	565.5	569.8	567.7	567.7	569.1	568.4	569.1	570.5
10°	559.2	556.3	558.5	556.3	560.6	557.8	559.2	559.2	559.2	561.3	562.7
12.5°	548.6	545.7	548.6	545.0	549.3	547.2	547.9	550.0	550.7	552.1	552.8
15°	538.0	534.4	535.8	533.7	538.0	535.8	536.6	539.4	539.4	541.5	543.6
17.5°	524.5	521.7	524.5	521.7	525.2	523.8	525.2	527.4	527.4	529.5	531.6
20°	512.5	509.7	511.8	509.7	513.9	511.8	512.5	515.3	516.1	518.2	520.3
22.5°	497.7	495.6	497.0	494.8	499.1	497.7	498.4	501.2	501.9	503.3	506.9
25°	482.1	477.9	480.0	478.6	482.8	480.7	482.1	484.9	486.4	488.5	491.3
27.5°	459.5	457.4	458.8	458.8	462.3	460.2	460.9	463.7	465.9	468.0	471.5
30°	436.2	432.6	434.1	434.8	437.6	436.2	437.6	440.4	441.1	443.9	446.8
32.5°	406.5	405.1	407.9	406.5	407.9	407.9	408.6	410.7	412.1	413.6	417.1
35°	374.7	371.8	374.7	373.3	376.8	374.7	376.8	378.9	378.9	381.7	383.9
37.5°	340.0	336.5	337.9	337.9	339.3	338.6	338.6	342.2	342.9	345.0	347.1
40°	299.0	297.6	300.4	299.7	300.4	300.4	301.1	303.3	304.7	305.4	306.1
42.5°	262.3	263.0	263.7	263.7	263.7	263.7	263.7	266.5	265.8	267.9	268.6
45°	231.9	229.0	230.5	229.8	231.9	229.8	231.9	234.0	232.6	234.7	233.3
47.5°	200.8	200.8	200.8	200.1	201.5	200.8	202.2	202.9	202.9	202.9	202.2
50°	176.0	173.9	174.6	174.6	175.3	174.6	176.0	176.7	176.7	175.3	172.5
52.5°	152.0	151.3	151.3	152.7	152.7	152.0	152.0	152.0	152.0	149.9	148.5
55°	132.2	130.8	131.5	131.5	131.5	131.5	132.2	131.5	131.5	129.4	127.2
57.5°	114.5	113.1	113.1	113.1	113.8	113.1	113.1	113.1	112.4	110.3	107.5
60°	97.6	96.8	97.6	97.6	98.3	97.6	97.6	97.6	96.1	94.0	91.2
62.5°	83.4	83.4	83.4	84.1	84.1	83.4	83.4	82.7	82.0	79.2	76.3
65°	71.4	70.7	71.4	71.4	72.1	72.1	71.4	70.7	70.0	67.2	64.3
67.5°	59.4	58.7	59.4	59.4	60.1	59.4	59.4	59.4	57.3	55.8	53.0
70°	48.1	47.4	47.4	47.4	48.1	46.7	47.4	47.4	46.0	43.8	41.0
72.5°	36.8	36.8	36.8	36.8	36.8	36.8	36.1	36.1	34.6	32.5	31.1
75°	26.9	26.9	27.6	27.6	26.9	26.9	26.9	26.2	25.4	24.0	22.6
77.5°	19.8	19.8	19.8	19.8	19.1	19.1	19.1	18.4	17.7	17.0	15.6
80°	14.1	14.1	14.1	13.4	14.1	13.4	13.4	13.4	12.0	11.3	10.6
82.5°	9.9	9.2	9.2	9.2	9.2	9.2	9.2	8.5	8.5	7.8	7.1
85°	5.7	5.7	5.7	5.7	5.7	5.7	5.7	5.7	4.9	4.2	4.2
87.5°	2.8	3.5	3.5	3.5	3.5	3.5	3.5	2.8	2.8	2.8	2.1
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°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	582.5	582.5	583.9	581.8	585.3	583.2	582.5	586.0	583.9	583.2	584.6
5°	577.6	578.3	579.0	577.6	581.1	579.0	579.0	582.5	581.1	580.4	582.5
7.5°	571.2	571.9	573.3	572.6	575.4	574.0	574.7	578.3	576.8	576.8	579.0
10°	563.4	564.8	566.2	566.2	569.8	568.4	568.4	572.6	571.2	571.9	574.7
12.5°	554.2	556.3	558.5	559.2	562.7	560.6	561.3	566.2	565.5	566.2	569.1
15°	544.3	547.2	549.3	549.3	553.5	551.4	553.5	558.5	557.1	559.9	563.4
17.5°	533.0	535.8	538.7	539.4	543.6	542.2	545.0	550.0	550.0	551.4	555.6
20°	522.4	526.0	527.4	529.5	533.7	533.0	534.4	540.1	540.1	542.2	546.5
22.5°	508.3	511.8	514.6	516.8	520.3	520.3	522.4	527.4	527.4	528.8	533.0
25°	492.7	497.0	499.1	501.2	504.7	504.0	506.2	510.4	511.1	512.5	516.8
27.5°	472.9	476.5	479.3	480.7	485.7	482.8	484.9	489.9	489.2	490.6	494.1
30°	448.2	451.7	454.6	454.6	458.8	458.8	460.9	463.0	463.0	464.4	467.3
32.5°	419.2	423.4	423.4	425.6	428.4	425.6	428.4	431.2	429.8	431.9	434.1
35°	386.0	388.1	388.8	388.8	390.9	390.2	389.5	391.6	390.2	393.8	395.9
37.5°	345.7	348.5	347.1	348.5	347.8	345.7	345.7	349.2	346.4	347.1	349.2
40°	306.8	306.8	306.1	302.6	303.3	301.1	300.4	301.1	298.3	297.6	300.4
42.5°	266.5	265.8	263.7	258.7	259.4	255.9	253.1	253.1	251.7	251.0	251.7
45°	230.5	228.3	224.8	219.1	217.7	214.9	209.2	207.8	205.7	205.7	206.4
47.5°	197.2	194.4	188.7	182.4	178.9	175.3	169.7	167.5	164.0	162.6	164.0
50°	169.7	164.7	157.6	148.5	144.9	140.7	135.0	131.5	128.0	126.5	125.8
52.5°	144.2	137.1	130.1	118.8	115.9	111.7	103.9	100.4	96.8	94.0	94.0
55°	122.3	115.9	106.0	95.4	91.2	87.0	79.2	74.2	70.7	69.3	67.9
57.5°	102.5	95.4	86.2	74.9	70.7	66.5	58.7	53.7	50.2	48.1	46.7
60°	86.2	78.5	69.3	59.4	54.4	50.2	42.4	37.5	33.9	31.8	30.4
62.5°	70.7	64.3	55.1	46.0	41.7	37.5	31.1	26.2	22.6	21.2	19.1
65°	59.4	53.0	44.5	36.8	33.2	29.0	23.3	19.1	16.3	14.1	12.7
67.5°	48.1	43.1	36.1	29.0	25.4	22.6	17.7	14.1	11.3	9.9	9.2
70°	38.2	33.2	27.6	21.9	19.8	17.0	13.4	9.9	8.5	7.1	6.4
72.5°	28.3	24.7	20.5	16.3	14.1	12.7	9.2	7.8	5.7	4.9	4.2
75°	20.5	17.7	14.8	11.3	9.9	9.2	7.1	4.9	4.2	3.5	2.8
77.5°	14.1	12.7	9.9	7.8	7.1	6.4	4.9	3.5	2.8	2.1	2.1
80°	9.2	7.8	6.4	4.9	4.9	4.2	2.8	2.1	2.1	1.4	1.4
82.5°	5.7	4.9	4.2	3.5	2.8	2.8	2.1	1.4	1.4	0.7	0.7
85°	3.5	2.8	2.1	2.1	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°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	584.6	584.6	586.0	583.9	585.3	585.3	586.7	583.9	585.3	586.0	587.5
5°	581.8	582.5	583.9	583.2	583.9	583.9	585.3	581.8	584.6	584.6	586.7
7.5°	579.0	579.0	580.4	579.7	581.1	581.8	583.2	580.4	583.2	583.2	585.3
10°	575.4	575.4	577.6	576.8	579.0	579.7	581.8	579.0	581.8	582.5	584.6
12.5°	570.5	571.2	573.3	573.3	575.4	576.8	579.0	577.6	581.1	581.8	584.6
15°	564.8	566.2	569.1	568.4	570.5	572.6	575.4	573.3	578.3	579.7	582.5
17.5°	557.8	559.2	561.3	561.3	563.4	564.8	568.4	567.0	571.2	571.9	575.4
20°	547.2	549.3	552.1	551.4	553.5	554.9	557.8	556.3	560.6	562.0	565.5
22.5°	534.4	535.8	538.0	538.0	540.1	541.5	544.3	542.2	546.5	547.2	550.0
25°	517.5	518.9	520.3	521.0	523.1	523.8	525.2	523.8	527.4	528.1	531.6
27.5°	495.6	496.3	498.4	498.4	499.8	500.5	502.6	499.8	504.7	504.7	506.9
30°	469.4	468.7	471.5	470.1	471.5	471.5	473.6	472.2	475.8	474.3	476.5
32.5°	434.8	436.2	436.2	434.8	437.6	436.9	436.9	435.5	437.6	438.3	439.7
35°	394.5	396.6	396.6	397.3	398.0	395.9	396.6	392.3	395.9	396.6	397.3
37.5°	350.6	348.5	349.9	347.8	351.3	347.1	347.1	344.3	347.1	347.1	347.8
40°	300.4	299.7	301.1	299.7	299.0	298.3	296.9	294.8	297.6	296.2	298.3
42.5°	253.1	252.4	252.4	251.0	250.3	250.3	248.8	247.4	246.7	246.7	250.3
45°	204.3	205.7	204.3	203.6	205.0	203.6	204.3	201.5	202.9	201.5	202.9
47.5°	163.3	164.0	162.6	161.2	163.3	161.2	161.2	159.1	161.9	161.9	160.5
50°	126.5	125.8	124.4	125.8	125.1	125.1	125.1	123.0	124.4	122.3	123.7
52.5°	93.3	92.6	92.6	91.9	92.6	91.9	91.9	91.2	91.2	90.5	91.2
55°	67.9	67.2	65.7	65.7	65.7	66.5	65.7	65.0	65.0	64.3	65.0
57.5°	46.0	44.5	44.5	44.5	44.5	43.8	43.8	43.1	43.8	43.1	43.8
60°	29.7	29.7	28.3	28.3	28.3	28.3	28.3	27.6	28.3	28.3	28.3
62.5°	18.4	18.4	17.7	17.0	17.7	17.0	17.0	17.0	17.7	17.0	17.7
65°	12.0	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
67.5°	8.5	7.8	7.8	7.8	7.8	7.8	7.8	7.1	7.8	7.8	7.8
70°	5.7	5.7	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.8	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
77.5°	2.1	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



TEST NUMBER: P252233

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CANDELA DISTRIBUTION (continued):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	585.3	586.0	584.6	585.3	583.9	585.3	586.0	587.5
5°	583.9	584.6	583.2	584.6	583.2	584.6	585.3	586.7
7.5°	582.5	583.9	582.5	583.9	582.5	583.9	584.6	586.0
10°	582.5	584.6	583.2	585.3	583.2	584.6	586.0	586.7
12.5°	582.5	584.6	583.9	585.3	584.6	586.0	587.5	588.9
15°	581.1	583.2	581.8	583.9	583.2	583.9	586.7	586.7
17.5°	573.3	575.4	575.4	576.8	576.8	579.0	580.4	581.8
20°	563.4	565.5	564.8	567.0	567.0	569.1	570.5	571.9
22.5°	548.6	551.4	550.7	552.8	552.1	553.5	556.3	555.6
25°	529.5	533.0	532.3	533.7	533.0	533.0	534.4	535.1
27.5°	506.2	508.3	507.6	509.0	507.6	509.0	510.4	511.1
30°	475.8	477.2	476.5	477.2	476.5	477.9	478.6	480.0
32.5°	439.0	441.1	439.0	440.4	439.7	439.7	442.5	441.1
35°	395.2	395.9	396.6	396.6	395.2	395.9	397.3	397.3
37.5°	346.4	349.9	345.7	347.8	347.1	347.1	347.1	349.2
40°	295.5	296.2	294.8	294.8	294.8	294.1	296.9	296.2
42.5°	247.4	248.1	247.4	245.3	246.0	246.0	248.1	245.3
45°	200.8	202.2	201.5	201.5	200.1	200.1	200.8	199.4
47.5°	159.1	160.5	158.4	159.1	157.6	159.1	158.4	159.8
50°	120.9	122.3	121.6	122.3	122.3	120.9	123.0	120.2
52.5°	90.5	91.2	90.5	89.8	89.1	89.1	90.5	89.8
55°	64.3	63.6	63.6	63.6	64.3	64.3	63.6	62.9
57.5°	43.1	43.1	42.4	42.4	43.1	41.7	42.4	41.7
60°	27.6	27.6	27.6	27.6	26.9	27.6	27.6	27.6
62.5°	17.0	17.0	17.0	17.0	17.0	17.0	17.0	17.0
65°	11.3	11.3	11.3	11.3	11.3	11.3	11.3	11.3
67.5°	7.1	7.8	7.8	7.8	7.1	7.1	7.1	7.1
70°	4.9	4.9	4.9	4.9	4.9	4.9	4.9	4.9
72.5°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
75°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1
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)