

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: P252568

Luminaire Tested: **LD6B15D010 EU6B10209727 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252568
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-8)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209727 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1044.0 lumens
Efficiency: N/A
Efficacy: 72.6 lumens/watt
Spacing Criteria (0/90/45): 1.11 / 1.22 / 1.15
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

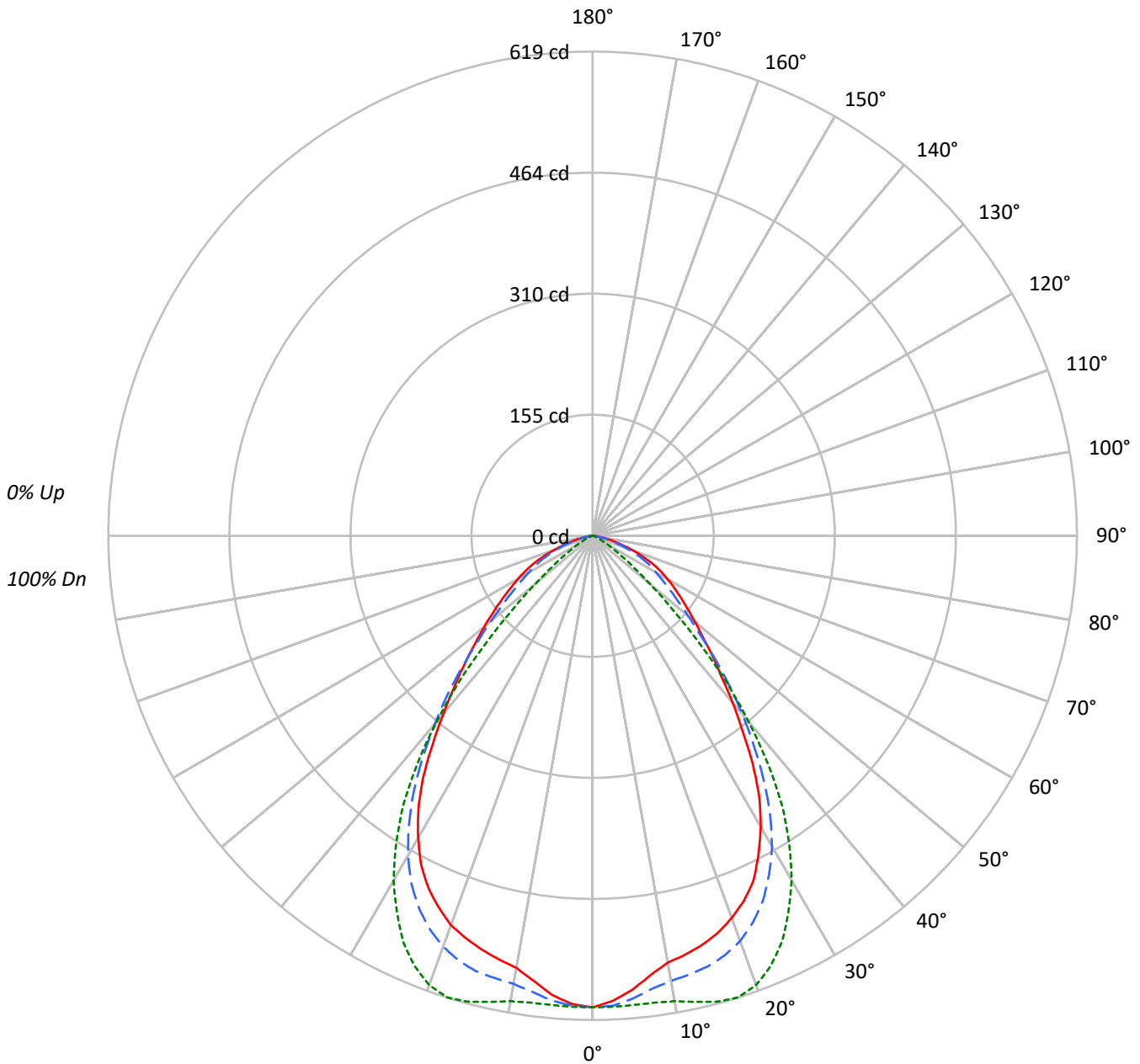
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
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	111	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	87	101	95	91	86	92	88	84	89	86	83	86	83	81	79																			
3	96	88	81	76	94	86	80	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	76	70	66	74	69	65	72	68	64	62																			
5	84	73	65	60	82	72	65	59	70	64	59	68	63	58	66	62	58	56																			
6	78	67	59	54	76	66	59	53	64	58	53	63	57	53	61	56	52	50																			
7	73	61	54	49	72	61	53	48	59	53	48	58	52	48	57	51	48	46																			
8	69	57	49	44	67	56	49	44	55	48	44	54	48	44	53	47	43	42																			
9	64	53	45	40	63	52	45	40	51	45	40	50	44	40	49	44	40	38																			
10	61	49	42	37	60	48	42	37	48	41	37	47	41	37	46	41	37	35																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	39327	39327	39327
5°	38148	39431	38606
10°	36701	40020	37158
15°	36567	41653	36993
20°	36088	42427	36769
25°	35014	41233	35762
30°	32386	38322	33599
35°	28417	33689	30082
40°	23676	26410	25226
45°	19929	17419	21276
50°	17254	9551	18320
55°	15617	5073	16015
60°	14366	2636	14366
65°	13014	1405	12689
70°	10491	801	9709
75°	7209	529	6680
80°	4696	263	4170
85°	3144	524	2620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.2	5.4
10°-20°	162.5	15.6
20°-30°	240.1	23.0
30°-40°	242.6	23.2
40°-50°	167.2	16.0
50°-60°	96.0	9.2
60°-70°	55.9	5.4
70°-80°	20.4	2.0
80°-90°	3.1	0.3
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°	458.9	44.0
0°-40°	701.4	67.2
0°-60°	964.6	92.4
0°-90°	1044.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1044.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	603	603	603	603	603	
5°	582	594	602	596	590	55
15°	541	570	617	576	548	153
25°	486	515	573	525	497	222
35°	357	381	423	399	378	221
45°	216	219	189	233	231	168
55°	137	121	45	125	141	124
65°	84	71	9	70	82	83
75°	29	23	2	22	26	32
85°	4	2	1	3	4	5
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°	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8
2.5°	595.1	595.8	596.5	595.8	596.5	599.3	597.2	598.6	598.6	599.3	601.4
5°	582.5	582.5	583.9	583.2	585.3	588.1	586.0	588.1	588.8	590.2	593.7
7.5°	566.5	566.5	567.2	567.2	570.0	572.8	571.4	574.2	577.0	579.8	583.9
10°	554.0	555.4	555.4	556.1	558.9	562.3	561.6	565.1	567.9	572.1	577.7
12.5°	548.4	549.1	549.1	550.5	553.3	556.8	556.1	559.6	563.7	568.6	574.2
15°	541.4	542.8	542.1	543.5	546.3	549.8	549.1	552.6	557.5	562.3	570.0
17.5°	532.4	533.1	533.8	533.8	536.6	539.3	539.3	542.8	548.4	554.0	562.3
20°	519.8	521.2	521.2	521.9	524.0	528.2	527.5	531.0	536.6	542.1	551.2
22.5°	505.2	505.9	505.9	506.6	510.1	512.2	512.9	515.7	520.5	526.8	535.2
25°	486.4	487.1	486.4	488.5	489.9	494.0	492.7	496.1	501.7	506.6	515.0
27.5°	459.2	460.6	460.6	461.3	464.8	468.3	468.3	471.8	476.6	480.1	488.5
30°	429.9	432.0	429.9	433.4	434.8	437.6	439.7	441.8	446.0	450.8	458.5
32.5°	396.5	395.8	396.5	397.9	402.1	404.2	405.6	407.6	411.8	416.0	422.3
35°	356.8	358.2	358.9	361.7	361.7	365.1	365.8	367.2	373.5	376.3	381.2
37.5°	315.0	316.4	317.1	318.4	321.2	322.6	324.7	326.8	331.0	335.9	338.7
40°	278.0	278.0	278.7	280.1	282.2	282.9	285.0	287.8	290.6	294.8	297.5
42.5°	243.2	243.9	243.2	244.6	246.7	249.5	248.8	252.3	252.9	255.7	257.8
45°	216.0	216.0	214.6	216.0	216.0	218.8	218.1	219.5	218.8	220.2	218.8
47.5°	190.2	190.9	190.2	190.9	190.9	190.9	191.6	190.2	190.9	188.8	184.7
50°	170.0	170.7	169.3	170.0	169.3	168.6	169.3	167.2	166.5	163.8	159.6
52.5°	152.6	151.9	151.2	151.2	151.2	150.5	149.8	147.7	145.6	142.8	138.0
55°	137.3	136.6	135.9	135.9	134.5	133.8	133.8	131.7	129.6	126.1	120.6
57.5°	123.3	122.6	121.9	121.9	121.2	119.9	119.9	117.8	115.0	110.8	105.9
60°	110.1	110.1	110.1	109.4	109.4	108.0	108.0	105.9	103.1	98.9	93.4
62.5°	98.3	97.6	97.6	97.6	97.6	96.9	96.2	94.8	92.0	87.8	82.9
65°	84.3	84.3	84.3	84.3	83.6	83.6	83.6	81.5	80.1	76.0	71.1
67.5°	69.0	69.0	69.0	69.0	68.3	69.0	69.0	67.6	66.2	62.0	57.8
70°	55.0	54.4	53.7	54.4	53.7	53.7	54.4	53.0	52.3	48.8	44.6
72.5°	40.4	41.1	40.4	40.4	40.4	39.7	40.4	39.7	38.3	35.5	32.8
75°	28.6	29.3	29.3	28.6	28.6	28.6	27.9	27.9	26.5	24.4	23.0
77.5°	19.5	19.5	19.5	19.5	18.8	18.8	18.8	18.1	17.4	16.0	14.6
80°	12.5	12.5	12.5	12.5	11.8	11.8	11.8	11.1	11.1	9.8	8.4
82.5°	7.7	7.7	7.7	7.7	7.7	7.7	7.0	7.0	6.3	5.6	4.9
85°	4.2	4.2	4.2	4.2	4.2	4.2	4.2	3.5	3.5	2.8	2.1
87.5°	1.4	1.4	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4	1.4
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°	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8
2.5°	600.0	600.7	600.7	600.7	602.8	603.5	601.4	599.3	603.5	602.8	604.1
5°	593.0	595.1	596.5	597.2	599.3	600.7	598.6	597.9	601.4	602.1	602.8
7.5°	584.6	588.1	591.6	593.0	595.8	597.2	596.5	596.5	600.7	602.1	602.1
10°	579.1	583.9	588.1	591.6	595.1	597.2	597.2	597.9	602.8	604.1	605.5
12.5°	577.7	583.9	589.5	594.4	597.2	600.7	601.4	603.5	608.3	610.4	610.4
15°	574.2	582.5	589.5	595.8	600.0	604.1	605.5	609.7	615.3	616.7	618.1
17.5°	567.9	576.3	584.6	592.3	597.9	601.4	605.5	609.7	616.7	618.8	619.5
20°	556.8	566.5	574.9	582.5	588.1	593.0	597.2	602.1	608.3	611.1	611.8
22.5°	540.0	549.8	558.2	566.5	572.1	576.3	580.5	586.0	592.3	595.1	595.1
25°	519.8	528.9	537.9	544.2	549.8	554.7	556.8	563.0	569.3	572.8	572.8
27.5°	494.0	502.4	510.8	517.7	521.2	525.4	528.9	534.5	539.3	542.1	544.9
30°	461.3	469.7	477.3	484.3	488.5	492.7	496.1	500.3	505.2	508.7	509.4
32.5°	425.8	432.7	440.4	447.4	451.5	452.9	456.4	460.6	464.8	467.6	468.3
35°	386.7	391.6	396.5	402.8	406.9	406.9	410.4	413.2	416.7	423.0	421.6
37.5°	340.7	347.7	351.2	353.3	356.1	358.9	359.6	363.0	367.2	368.6	370.7
40°	297.5	299.6	301.7	301.7	304.5	304.5	304.5	305.2	309.4	310.1	312.9
42.5°	254.3	254.3	252.3	250.2	250.9	250.2	246.7	246.7	248.8	251.6	251.6
45°	213.9	209.0	202.8	197.9	194.4	193.0	188.8	188.8	188.1	188.8	191.6
47.5°	179.8	171.4	161.0	151.2	147.7	144.9	138.7	135.9	134.5	135.2	136.6
50°	151.2	142.2	130.3	118.5	112.2	108.7	101.0	96.2	95.5	94.1	96.9
52.5°	130.3	119.2	106.6	92.7	86.4	80.8	72.5	68.3	65.5	65.5	66.2
55°	112.2	100.3	86.4	72.5	66.2	62.0	53.7	48.1	45.3	44.6	46.7
57.5°	96.9	85.7	71.8	57.8	51.6	46.7	38.3	33.4	31.4	30.0	30.7
60°	85.0	73.9	59.9	46.7	41.1	35.5	28.6	23.0	20.2	20.2	20.9
62.5°	73.9	63.4	50.9	38.3	33.4	28.6	20.9	16.0	13.9	13.2	13.9
65°	62.7	53.0	42.5	32.1	27.2	23.0	16.7	12.5	9.8	9.1	9.8
67.5°	50.9	43.2	34.1	25.8	21.6	18.1	12.5	9.1	7.0	6.3	7.0
70°	39.7	32.8	25.8	18.8	16.0	13.2	9.1	7.0	4.9	4.2	4.9
72.5°	28.6	23.7	18.1	13.2	11.1	9.1	6.3	4.9	3.5	2.8	3.5
75°	19.5	16.0	11.8	8.4	7.0	6.3	4.2	2.8	2.1	2.1	2.1
77.5°	12.5	9.8	7.7	5.6	4.2	3.5	2.1	1.4	1.4	1.4	1.4
80°	7.0	5.6	4.2	2.8	2.1	2.1	1.4	1.4	0.7	0.7	0.7
82.5°	4.2	2.8	2.1	1.4	1.4	0.7	0.7	0.7	0.7	0.7	0.7
85°	2.1	1.4	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7
87.5°	0.7	0.7	0.7	0.7	0.0	0.0	0.0	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°	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8
2.5°	601.4	602.1	600.0	602.8	600.7	603.5	603.5	600.7	601.4	600.0	602.8
5°	600.0	600.0	598.6	600.7	597.9	600.7	600.0	595.1	596.5	593.7	596.5
7.5°	600.0	598.6	596.5	598.6	595.1	597.2	594.4	589.5	588.1	584.6	584.6
10°	602.1	600.0	597.2	597.9	594.4	595.1	590.9	583.9	581.8	577.7	576.3
12.5°	606.9	604.8	600.7	602.1	597.2	597.2	591.6	583.2	579.1	573.5	572.1
15°	613.9	610.4	605.5	606.2	601.4	598.6	591.6	581.8	576.3	568.6	566.5
17.5°	615.3	611.8	605.5	605.5	599.3	595.8	587.4	576.3	569.3	561.6	557.5
20°	607.6	604.1	597.2	596.5	590.9	586.0	577.0	565.8	558.9	550.5	547.0
22.5°	591.6	587.4	581.2	580.5	574.9	572.1	562.3	551.2	544.2	535.9	533.1
25°	567.9	565.8	559.6	558.9	554.0	550.5	542.1	531.7	525.4	517.0	514.3
27.5°	540.0	537.9	531.7	531.7	526.1	524.0	516.3	506.6	501.7	494.0	490.6
30°	506.6	503.8	500.3	499.6	494.7	492.7	485.7	476.6	471.8	465.5	464.1
32.5°	466.9	464.8	462.7	462.0	457.1	455.0	450.1	441.1	436.9	431.3	429.2
35°	420.9	419.5	417.4	416.7	414.6	412.5	407.6	400.7	398.6	394.4	392.3
37.5°	367.9	369.3	367.9	367.9	365.8	366.5	362.3	358.2	356.1	353.3	351.9
40°	310.8	313.6	315.7	315.7	315.0	317.8	317.1	313.6	312.9	311.5	310.8
42.5°	252.9	254.3	258.5	261.3	260.6	267.6	268.3	271.1	273.2	271.8	272.5
45°	192.3	196.5	202.1	204.9	208.4	217.4	222.3	227.9	232.7	235.5	234.8
47.5°	138.7	143.5	149.8	154.0	160.3	171.4	184.0	190.9	197.9	201.4	204.9
50°	100.3	105.2	112.9	119.2	123.3	138.7	151.9	161.0	168.6	173.5	177.0
52.5°	70.4	76.0	84.3	89.9	96.2	110.8	126.1	136.6	144.9	151.2	154.7
55°	48.8	55.0	62.7	68.3	75.3	90.6	105.2	116.4	125.4	131.0	135.2
57.5°	34.1	39.7	47.4	52.3	59.2	73.9	88.5	99.6	108.7	114.3	119.2
60°	23.0	28.6	36.2	41.1	46.7	61.3	74.6	86.4	94.8	100.3	105.2
62.5°	16.0	20.9	28.6	33.4	38.3	50.9	63.4	73.9	82.2	88.5	92.7
65°	12.5	16.7	23.0	27.2	32.1	42.5	53.0	62.0	70.4	76.7	79.4
67.5°	9.1	13.2	18.1	21.6	25.1	34.1	43.2	50.2	57.8	62.7	66.2
70°	6.3	9.1	13.2	16.0	18.8	25.8	32.8	39.0	44.6	48.1	50.9
72.5°	4.9	6.3	9.1	11.1	13.2	18.1	23.7	28.6	32.8	35.5	38.3
75°	2.8	4.2	6.3	7.7	9.1	12.5	16.0	19.5	22.3	24.4	25.8
77.5°	1.4	2.1	3.5	4.2	5.6	7.7	10.5	12.5	14.6	16.0	17.4
80°	1.4	1.4	2.1	2.1	2.8	4.2	5.6	7.0	8.4	9.8	10.5
82.5°	0.7	0.7	1.4	1.4	1.4	2.1	2.8	4.2	4.9	5.6	6.3
85°	0.7	0.7	0.7	0.7	0.7	1.4	1.4	2.1	2.8	3.5	3.5
87.5°	0.0	0.0	0.7	0.7	0.7	0.7	0.7	1.4	1.4	1.4	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	602.8	602.8	602.8	602.8	602.8	602.8	602.8	602.8
2.5°	600.7	602.1	601.4	602.8	600.7	600.0	601.4	599.3
5°	593.0	593.7	593.0	593.0	591.6	590.2	591.6	589.5
7.5°	581.2	581.2	579.1	579.1	576.3	574.9	574.9	574.2
10°	571.4	569.3	567.2	567.9	563.7	562.3	561.6	560.9
12.5°	566.5	565.1	561.6	561.6	557.5	556.1	555.4	554.7
15°	560.9	558.2	555.4	554.7	551.2	549.8	549.1	547.7
17.5°	551.2	549.1	545.6	545.6	542.1	541.4	540.0	539.3
20°	540.7	537.9	535.2	535.2	531.0	531.0	528.9	529.6
22.5°	526.1	524.0	521.2	521.2	517.7	517.0	515.0	514.3
25°	508.7	505.9	503.8	503.1	500.3	498.9	498.2	496.8
27.5°	485.7	483.6	481.5	480.1	476.6	475.9	473.8	474.5
30°	457.1	455.7	455.0	453.6	449.5	448.1	448.1	446.0
32.5°	425.8	423.7	422.3	420.2	416.7	416.0	413.9	414.6
35°	387.4	384.6	382.6	383.3	379.1	378.4	377.0	377.7
37.5°	347.7	344.9	342.1	341.4	338.0	338.0	335.9	335.9
40°	306.6	303.8	302.4	302.4	298.2	298.9	296.8	296.2
42.5°	269.7	266.9	266.2	265.5	263.4	262.7	260.6	261.3
45°	234.8	234.1	234.1	232.7	230.6	230.0	230.6	230.6
47.5°	204.2	204.9	204.2	204.2	202.8	204.2	202.8	203.5
50°	178.4	179.8	179.8	179.8	179.1	179.8	179.8	180.5
52.5°	156.8	158.9	158.2	158.9	158.2	159.6	158.9	159.6
55°	138.0	139.4	140.1	140.8	140.8	140.8	140.8	140.8
57.5°	120.6	122.6	123.3	124.0	124.0	125.4	124.0	124.0
60°	106.6	108.7	109.4	110.1	110.1	110.8	109.4	110.1
62.5°	94.1	96.2	96.2	96.9	96.9	96.9	95.5	96.2
65°	81.5	82.2	82.9	82.9	82.2	82.2	81.5	82.2
67.5°	67.6	68.3	67.6	67.6	66.9	66.9	65.5	66.2
70°	52.3	52.3	53.0	52.3	51.6	52.3	51.6	50.9
72.5°	39.0	39.0	39.0	38.3	38.3	37.6	38.3	38.3
75°	26.5	26.5	27.2	27.2	27.2	27.2	26.5	26.5
77.5°	17.4	17.4	17.4	17.4	18.1	17.4	17.4	17.4
80°	11.1	11.1	11.8	11.8	11.1	11.1	11.1	11.1
82.5°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0
85°	4.2	4.2	4.2	4.2	3.5	3.5	3.5	3.5
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	1.4	1.4
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)