

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: P252562

Luminaire Tested: **LD6B15D010 EU6B10209024 6LBDW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252562
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 EU6B10209024 6LBDW1LI
Description: PORTFOLIO 6 INCH DOUBLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2400K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1056.0 lumens
Efficiency: N/A
Efficacy: 73.4 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

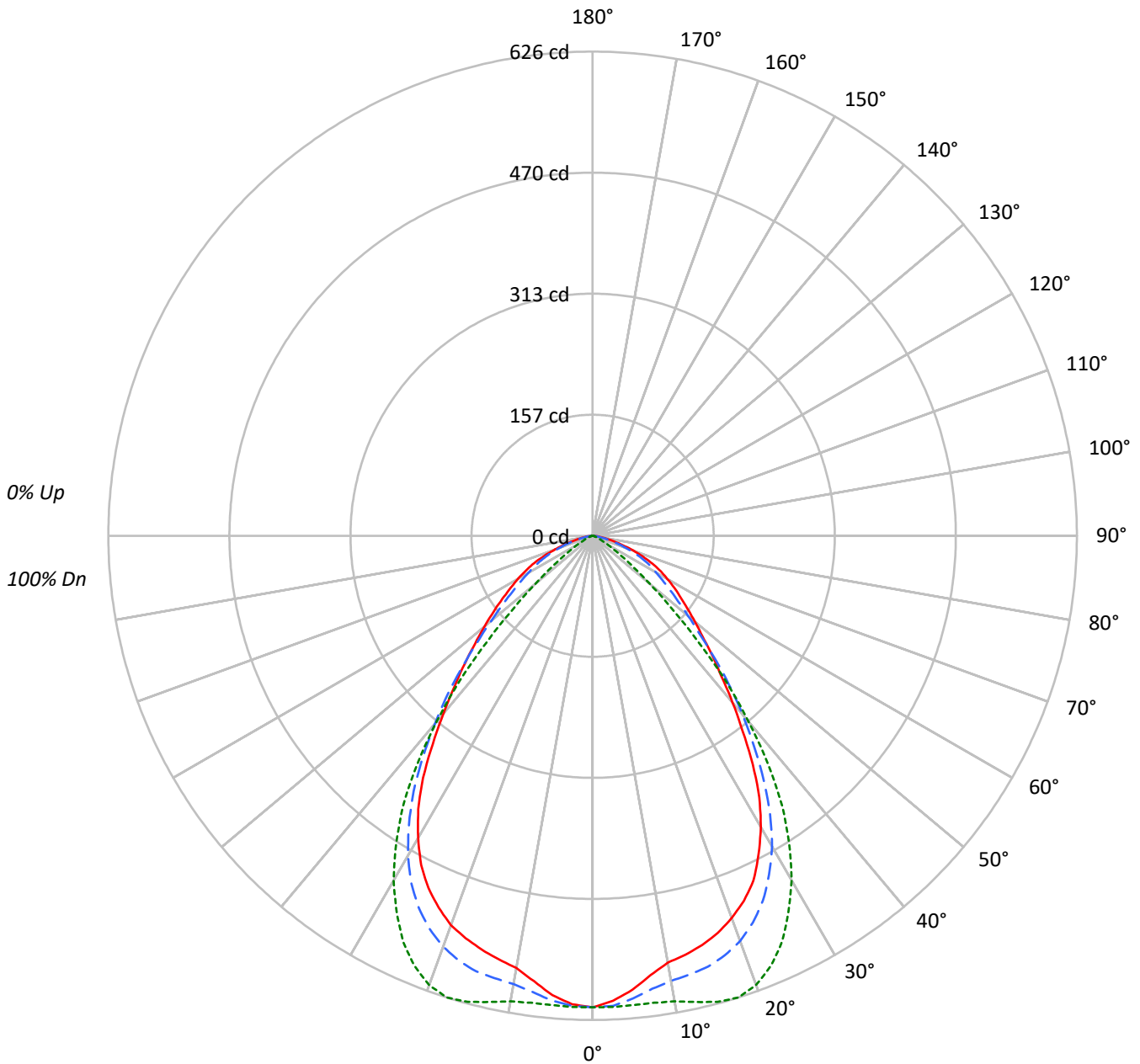
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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°	39777	39777	39777
5°	38587	39883	39052
10°	37118	40484	37589
15°	36993	42133	37418
20°	36505	42913	37192
25°	35417	41708	36172
30°	32762	38759	33983
35°	28744	34072	30424
40°	23949	26716	25516
45°	20160	17622	21525
50°	17457	9662	18533
55°	15799	5130	16197
60°	14536	2662	14536
65°	13168	1420	12844
70°	10625	801	9824
75°	7285	529	6755
80°	4771	263	4245
85°	3144	524	2620



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	56.9	5.4
10°-20°	164.4	15.6
20°-30°	242.9	23.0
30°-40°	245.3	23.2
40°-50°	169.1	16.0
50°-60°	97.1	9.2
60°-70°	56.5	5.4
70°-80°	20.6	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°	464.1	44.0
0°-40°	709.5	67.2
0°-60°	975.7	92.4
0°-90°	1056.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1056.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	610	610	610	610	610	
5°	589	600	609	603	596	55
15°	548	577	624	583	554	154
25°	492	521	579	531	502	224
35°	361	386	428	403	382	224
45°	218	221	191	235	233	170
55°	139	122	45	127	142	125
65°	85	72	9	71	83	84
75°	29	23	2	23	27	33
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°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
2.5°	601.9	602.6	603.3	602.6	603.3	606.2	604.0	605.5	605.5	606.2	608.3
5°	589.2	589.2	590.7	589.9	592.1	594.9	592.8	594.9	595.6	597.0	600.5
7.5°	573.0	573.0	573.7	573.7	576.6	579.4	578.0	580.8	583.6	586.4	590.7
10°	560.3	561.8	561.8	562.5	565.3	568.8	568.1	571.6	574.4	578.7	584.3
12.5°	554.7	555.4	555.4	556.8	559.6	563.2	562.5	566.0	570.2	575.1	580.8
15°	547.7	549.1	548.4	549.8	552.6	556.1	555.4	558.9	563.9	568.8	576.6
17.5°	538.5	539.2	539.9	539.9	542.7	545.5	545.5	549.1	554.7	560.3	568.8
20°	525.8	527.2	527.2	527.9	530.0	534.3	533.6	537.1	542.7	548.4	557.5
22.5°	511.0	511.7	511.7	512.4	515.9	518.1	518.8	521.6	526.5	532.9	541.3
25°	492.0	492.7	492.0	494.1	495.5	499.7	498.3	501.8	507.5	512.4	520.9
27.5°	464.5	465.9	465.9	466.6	470.1	473.6	473.6	477.2	482.1	485.6	494.1
30°	434.9	437.0	434.9	438.4	439.8	442.6	444.8	446.9	451.1	456.0	463.8
32.5°	401.1	400.3	401.1	402.5	406.7	408.8	410.2	412.3	416.6	420.8	427.1
35°	360.9	362.3	363.0	365.8	365.8	369.3	370.0	371.4	377.8	380.6	385.5
37.5°	318.6	320.0	320.7	322.1	324.9	326.3	328.5	330.6	334.8	339.7	342.5
40°	281.2	281.2	281.9	283.3	285.5	286.2	288.3	291.1	293.9	298.1	301.0
42.5°	246.0	246.7	246.0	247.4	249.5	252.3	251.6	255.1	255.9	258.7	260.8
45°	218.5	218.5	217.1	218.5	218.5	221.3	220.6	222.0	221.3	222.7	221.3
47.5°	192.4	193.1	192.4	193.1	193.1	193.1	193.8	192.4	193.1	191.0	186.8
50°	172.0	172.7	171.3	172.0	171.3	170.6	171.3	169.2	168.5	165.6	161.4
52.5°	154.4	153.7	152.9	152.9	152.9	152.2	151.5	149.4	147.3	144.5	139.6
55°	138.9	138.1	137.4	137.4	136.0	135.3	135.3	133.2	131.1	127.6	121.9
57.5°	124.8	124.1	123.3	123.3	122.6	121.2	121.2	119.1	116.3	112.1	107.1
60°	111.4	111.4	111.4	110.7	110.7	109.2	109.2	107.1	104.3	100.1	94.4
62.5°	99.4	98.7	98.7	98.7	98.7	98.0	97.3	95.9	93.0	88.8	83.9
65°	85.3	85.3	85.3	85.3	84.6	84.6	84.6	82.5	81.1	76.8	71.9
67.5°	69.8	69.8	69.8	69.8	69.1	69.8	69.8	68.4	67.0	62.7	58.5
70°	55.7	55.0	54.3	55.0	54.3	54.3	55.0	53.6	52.9	49.3	45.1
72.5°	40.9	41.6	40.9	40.9	40.9	40.2	40.9	40.2	38.8	35.9	33.1
75°	28.9	29.6	29.6	28.9	28.9	28.9	28.2	28.2	26.8	24.7	23.3
77.5°	19.7	19.7	19.7	19.7	19.0	19.0	19.0	18.3	17.6	16.2	14.8
80°	12.7	12.7	12.7	12.7	12.0	12.0	12.0	11.3	11.3	9.9	8.5
82.5°	7.8	7.8	7.8	7.8	7.8	7.8	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°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
2.5°	606.9	607.6	607.6	607.6	609.7	610.4	608.3	606.2	610.4	609.7	611.1
5°	599.8	601.9	603.3	604.0	606.2	607.6	605.5	604.7	608.3	609.0	609.7
7.5°	591.4	594.9	598.4	599.8	602.6	604.0	603.3	603.3	607.6	609.0	609.0
10°	585.7	590.7	594.9	598.4	601.9	604.0	604.0	604.7	609.7	611.1	612.5
12.5°	584.3	590.7	596.3	601.2	604.0	607.6	608.3	610.4	615.3	617.4	617.4
15°	580.8	589.2	596.3	602.6	606.9	611.1	612.5	616.7	622.4	623.8	625.2
17.5°	574.4	582.9	591.4	599.1	604.7	608.3	612.5	616.7	623.8	625.9	626.6
20°	563.2	573.0	581.5	589.2	594.9	599.8	604.0	609.0	615.3	618.1	618.8
22.5°	546.2	556.1	564.6	573.0	578.7	582.9	587.1	592.8	599.1	601.9	601.9
25°	525.8	535.0	544.1	550.5	556.1	561.0	563.2	569.5	575.8	579.4	579.4
27.5°	499.7	508.2	516.6	523.7	527.2	531.4	535.0	540.6	545.5	548.4	551.2
30°	466.6	475.1	482.8	489.9	494.1	498.3	501.8	506.1	511.0	514.5	515.2
32.5°	430.7	437.7	445.5	452.5	456.7	458.1	461.7	465.9	470.1	472.9	473.6
35°	391.2	396.1	401.1	407.4	411.6	411.6	415.1	418.0	421.5	427.8	426.4
37.5°	344.7	351.7	355.2	357.4	360.2	363.0	363.7	367.2	371.4	372.9	375.0
40°	301.0	303.1	305.2	305.2	308.0	308.0	308.0	308.7	312.9	313.7	316.5
42.5°	257.3	257.3	255.1	253.0	253.7	253.0	249.5	249.5	251.6	254.4	254.4
45°	216.4	211.5	205.1	200.2	196.6	195.2	191.0	191.0	190.3	191.0	193.8
47.5°	181.8	173.4	162.8	152.9	149.4	146.6	140.3	137.4	136.0	136.7	138.1
50°	152.9	143.8	131.8	119.8	113.5	110.0	102.2	97.3	96.6	95.2	98.0
52.5°	131.8	120.5	107.8	93.7	87.4	81.8	73.3	69.1	66.3	66.3	67.0
55°	113.5	101.5	87.4	73.3	67.0	62.7	54.3	48.6	45.8	45.1	47.2
57.5°	98.0	86.7	72.6	58.5	52.2	47.2	38.8	33.8	31.7	30.3	31.0
60°	86.0	74.7	60.6	47.2	41.6	35.9	28.9	23.3	20.4	20.4	21.1
62.5°	74.7	64.1	51.5	38.8	33.8	28.9	21.1	16.2	14.1	13.4	14.1
65°	63.4	53.6	43.0	32.4	27.5	23.3	16.9	12.7	9.9	9.2	9.9
67.5°	51.5	43.7	34.5	26.1	21.8	18.3	12.7	9.2	7.0	6.3	7.0
70°	40.2	33.1	26.1	19.0	16.2	13.4	9.2	7.0	4.9	4.2	4.9
72.5°	28.9	24.0	18.3	13.4	11.3	9.2	6.3	4.9	3.5	2.8	3.5
75°	19.7	16.2	12.0	8.5	7.0	6.3	4.2	2.8	2.1	2.1	2.1
77.5°	12.7	9.9	7.8	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°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
2.5°	608.3	609.0	606.9	609.7	607.6	610.4	610.4	607.6	608.3	606.9	609.7
5°	606.9	606.9	605.5	607.6	604.7	607.6	606.9	601.9	603.3	600.5	603.3
7.5°	606.9	605.5	603.3	605.5	601.9	604.0	601.2	596.3	594.9	591.4	591.4
10°	609.0	606.9	604.0	604.7	601.2	601.9	597.7	590.7	588.5	584.3	582.9
12.5°	613.9	611.8	607.6	609.0	604.0	604.0	598.4	589.9	585.7	580.1	578.7
15°	621.0	617.4	612.5	613.2	608.3	605.5	598.4	588.5	582.9	575.1	573.0
17.5°	622.4	618.8	612.5	612.5	606.2	602.6	594.2	582.9	575.8	568.1	563.9
20°	614.6	611.1	604.0	603.3	597.7	592.8	583.6	572.3	565.3	556.8	553.3
22.5°	598.4	594.2	587.8	587.1	581.5	578.7	568.8	557.5	550.5	542.0	539.2
25°	574.4	572.3	566.0	565.3	560.3	556.8	548.4	537.8	531.4	523.0	520.2
27.5°	546.2	544.1	537.8	537.8	532.1	530.0	522.3	512.4	507.5	499.7	496.2
30°	512.4	509.6	506.1	505.4	500.4	498.3	491.3	482.1	477.2	470.8	469.4
32.5°	472.2	470.1	468.0	467.3	462.4	460.3	455.3	446.2	441.9	436.3	434.2
35°	425.7	424.3	422.2	421.5	419.4	417.3	412.3	405.3	403.2	398.9	396.8
37.5°	372.2	373.6	372.2	372.2	370.0	370.7	366.5	362.3	360.2	357.4	355.9
40°	314.4	317.2	319.3	319.3	318.6	321.4	320.7	317.2	316.5	315.1	314.4
42.5°	255.9	257.3	261.5	264.3	263.6	270.7	271.4	274.2	276.3	274.9	275.6
45°	194.5	198.8	204.4	207.2	210.7	219.9	224.8	230.5	235.4	238.2	237.5
47.5°	140.3	145.2	151.5	155.8	162.1	173.4	186.1	193.1	200.2	203.7	207.2
50°	101.5	106.4	114.2	120.5	124.8	140.3	153.7	162.8	170.6	175.5	179.0
52.5°	71.2	76.8	85.3	90.9	97.3	112.1	127.6	138.1	146.6	152.9	156.5
55°	49.3	55.7	63.4	69.1	76.1	91.6	106.4	117.7	126.9	132.5	136.7
57.5°	34.5	40.2	47.9	52.9	59.9	74.7	89.5	100.8	110.0	115.6	120.5
60°	23.3	28.9	36.7	41.6	47.2	62.0	75.4	87.4	95.9	101.5	106.4
62.5°	16.2	21.1	28.9	33.8	38.8	51.5	64.1	74.7	83.2	89.5	93.7
65°	12.7	16.9	23.3	27.5	32.4	43.0	53.6	62.7	71.2	77.5	80.4
67.5°	9.2	13.4	18.3	21.8	25.4	34.5	43.7	50.7	58.5	63.4	67.0
70°	6.3	9.2	13.4	16.2	19.0	26.1	33.1	39.5	45.1	48.6	51.5
72.5°	4.9	6.3	9.2	11.3	13.4	18.3	24.0	28.9	33.1	35.9	38.8
75°	2.8	4.2	6.3	7.8	9.2	12.7	16.2	19.7	22.6	24.7	26.1
77.5°	1.4	2.1	3.5	4.2	5.6	7.8	10.6	12.7	14.8	16.2	17.6
80°	1.4	1.4	2.1	2.1	2.8	4.2	5.6	7.0	8.5	9.9	10.6
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°	609.7	609.7	609.7	609.7	609.7	609.7	609.7	609.7
2.5°	607.6	609.0	608.3	609.7	607.6	606.9	608.3	606.2
5°	599.8	600.5	599.8	599.8	598.4	597.0	598.4	596.3
7.5°	587.8	587.8	585.7	585.7	582.9	581.5	581.5	580.8
10°	578.0	575.8	573.7	574.4	570.2	568.8	568.1	567.4
12.5°	573.0	571.6	568.1	568.1	563.9	562.5	561.8	561.0
15°	567.4	564.6	561.8	561.0	557.5	556.1	555.4	554.0
17.5°	557.5	555.4	551.9	551.9	548.4	547.7	546.2	545.5
20°	547.0	544.1	541.3	541.3	537.1	537.1	535.0	535.7
22.5°	532.1	530.0	527.2	527.2	523.7	523.0	520.9	520.2
25°	514.5	511.7	509.6	508.9	506.1	504.7	504.0	502.5
27.5°	491.3	489.2	487.0	485.6	482.1	481.4	479.3	480.0
30°	462.4	461.0	460.3	458.8	454.6	453.2	453.2	451.1
32.5°	430.7	428.5	427.1	425.0	421.5	420.8	418.7	419.4
35°	391.9	389.1	387.0	387.7	383.4	382.7	381.3	382.0
37.5°	351.7	348.9	346.1	345.4	341.8	341.8	339.7	339.7
40°	310.1	307.3	305.9	305.9	301.7	302.4	300.3	299.6
42.5°	272.8	270.0	269.2	268.5	266.4	265.7	263.6	264.3
45°	237.5	236.8	236.8	235.4	233.3	232.6	233.3	233.3
47.5°	206.5	207.2	206.5	206.5	205.1	206.5	205.1	205.8
50°	180.4	181.8	181.8	181.8	181.1	181.8	181.8	182.6
52.5°	158.6	160.7	160.0	160.7	160.0	161.4	160.7	161.4
55°	139.6	141.0	141.7	142.4	142.4	142.4	142.4	142.4
57.5°	121.9	124.1	124.8	125.5	125.5	126.9	125.5	125.5
60°	107.8	110.0	110.7	111.4	111.4	112.1	110.7	111.4
62.5°	95.2	97.3	97.3	98.0	98.0	98.0	96.6	97.3
65°	82.5	83.2	83.9	83.9	83.2	83.2	82.5	83.2
67.5°	68.4	69.1	68.4	68.4	67.7	67.7	66.3	67.0
70°	52.9	52.9	53.6	52.9	52.2	52.9	52.2	51.5
72.5°	39.5	39.5	39.5	38.8	38.8	38.1	38.8	38.8
75°	26.8	26.8	27.5	27.5	27.5	27.5	26.8	26.8
77.5°	17.6	17.6	17.6	17.6	18.3	17.6	17.6	17.6
80°	11.3	11.3	12.0	12.0	11.3	11.3	11.3	11.3
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)