

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: P252361

Luminaire Tested: **LD6B15D010 EU6B10209730 6LBLWW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252361
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-5)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209730 6LBLWW1LI
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 97CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 989.0 lumens
Efficiency: N/A
Efficacy: 68.7 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

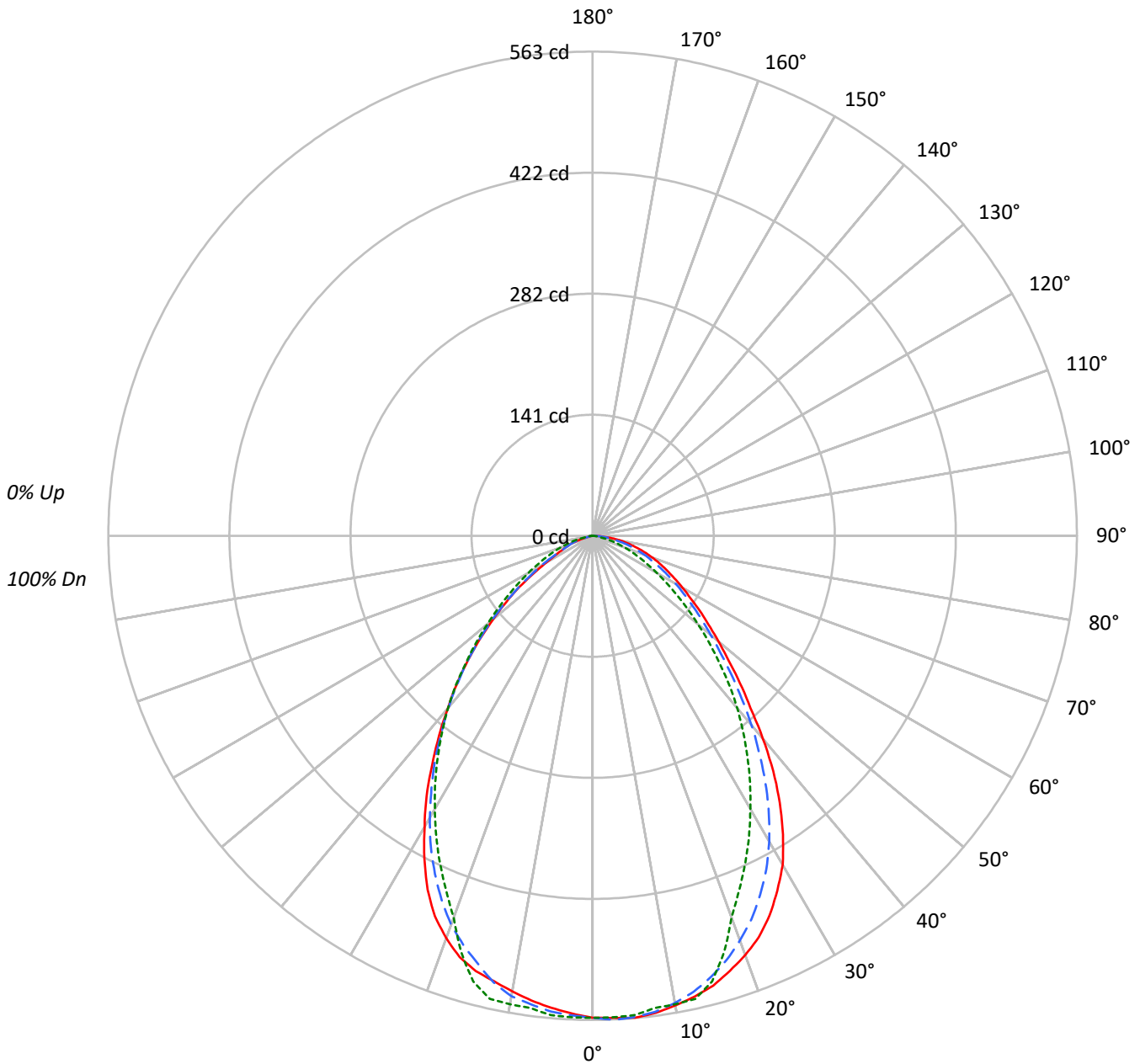
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	107	104	101	108	105	102	99	101	98	96	97	95	93	93	92	90	88																			
2	103	96	90	86	100	94	89	85	91	86	83	88	84	81	85	82	79	77																			
3	95	86	80	74	93	85	79	73	82	77	72	79	75	71	77	73	70	68																			
4	88	78	71	65	86	77	70	64	74	68	64	72	67	63	70	66	62	60																			
5	82	71	63	57	80	70	63	57	68	62	57	66	60	56	64	59	55	54																			
6	77	65	57	51	75	64	57	51	62	56	51	61	55	50	59	54	50	48																			
7	72	60	52	46	70	59	51	46	57	51	46	56	50	46	55	49	45	44																			
8	67	55	47	42	66	54	47	42	53	46	42	52	46	42	51	45	41	40																			
9	63	51	43	38	62	50	43	38	49	43	38	48	42	38	47	42	38	36																			
10	59	47	40	35	58	47	40	35	46	40	35	45	39	35	44	39	35	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	36561	36561	36561
5°	36845	36648	36078
10°	36741	36641	35628
15°	36574	36230	35392
20°	36026	32791	34561
25°	35050	30227	32688
30°	33282	27632	29440
35°	30201	24984	25908
40°	26214	22254	22313
45°	22356	19136	18933
50°	19355	16179	15285
55°	17300	13490	11841
60°	15762	11208	7972
65°	14712	9216	5959
70°	14020	7497	4998
75°	13208	5319	1638
80°	12586	2743	564
85°	10330	1647	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	52.9	5.4
10°-20°	148.0	15.0
20°-30°	204.3	20.7
30°-40°	207.9	21.0
40°-50°	167.1	16.9
50°-60°	111.1	11.2
60°-70°	63.3	6.4
70°-80°	28.4	2.9
80°-90°	6.0	0.6
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°	405.2	41.0
0°-40°	613.1	62.0
0°-60°	891.3	90.1
0°-90°	989.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	989.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	560	560	560	560	560	
5°	563	562	560	555	551	53
15°	542	531	536	515	524	152
25°	487	461	420	434	454	223
35°	379	350	314	320	325	236
45°	242	228	207	205	205	188
55°	152	142	119	106	104	137
65°	95	85	60	39	39	95
75°	52	44	21	9	6	56
85°	14	10	2	1	0	16
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°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
2.5°	561.1	564.0	563.3	562.6	563.3	562.6	561.1	561.1	559.6	559.6	563.3
5°	562.6	564.0	563.3	562.6	562.6	563.3	560.4	560.4	558.9	558.2	561.8
7.5°	559.6	561.8	560.4	560.4	559.6	560.4	557.5	557.5	555.3	554.6	558.2
10°	554.6	557.5	556.0	556.0	556.0	554.6	553.1	552.4	550.2	549.5	551.6
12.5°	548.7	550.9	550.2	548.7	548.7	548.7	545.8	545.1	542.2	540.7	542.9
15°	541.5	542.9	542.2	541.5	540.0	540.0	537.1	535.6	532.7	529.8	531.3
17.5°	530.5	532.7	531.3	530.5	528.4	528.4	525.4	524.0	519.6	516.7	517.4
20°	518.9	519.6	518.9	517.4	515.3	514.5	511.6	508.7	505.1	501.4	500.7
22.5°	505.1	505.8	503.6	502.2	500.0	499.2	495.6	493.4	487.6	483.2	482.5
25°	486.9	487.6	487.6	484.0	482.5	481.0	477.4	473.8	468.7	462.9	460.7
27.5°	465.0	467.2	465.8	462.1	459.2	458.5	454.9	451.9	445.4	440.3	437.4
30°	441.8	441.0	440.3	438.1	433.7	433.0	429.4	425.7	420.6	414.1	410.5
32.5°	411.9	411.9	411.2	409.0	404.6	403.2	400.3	395.9	390.1	385.0	381.3
35°	379.2	379.9	379.2	374.8	371.9	370.4	369.0	363.9	358.8	353.0	350.1
37.5°	345.0	342.8	343.5	339.9	336.2	337.7	333.3	331.1	325.3	320.9	318.0
40°	307.8	309.3	306.4	304.9	302.7	300.6	300.6	296.9	294.0	288.9	287.5
42.5°	271.5	273.6	272.9	271.5	268.5	269.3	265.6	264.2	260.5	258.4	256.2
45°	242.3	242.3	242.3	240.9	240.2	238.7	236.5	234.3	232.2	229.2	227.8
47.5°	214.0	214.0	214.7	213.2	211.8	211.1	209.6	209.6	206.0	203.0	201.6
50°	190.7	190.7	190.7	189.2	187.8	187.8	186.3	184.9	182.7	180.5	179.0
52.5°	169.6	169.6	169.6	168.1	167.4	166.7	165.9	165.2	162.3	160.8	159.4
55°	152.1	151.4	151.4	150.6	149.2	149.2	148.5	147.0	144.8	142.6	141.9
57.5°	134.6	135.4	134.6	134.6	133.2	133.2	131.7	131.0	128.8	127.4	125.9
60°	120.8	120.8	120.8	120.1	118.6	119.4	117.9	117.2	115.0	112.8	111.3
62.5°	107.0	107.7	107.7	107.0	105.5	105.5	104.8	104.1	101.9	99.7	97.5
65°	95.3	95.3	95.3	94.6	93.9	93.9	93.2	92.4	90.2	87.3	85.1
67.5°	84.4	83.7	83.7	83.7	83.0	82.2	81.5	80.8	78.6	76.4	73.5
70°	73.5	73.5	73.5	72.8	71.3	72.0	71.3	70.6	68.4	66.2	64.0
72.5°	63.3	63.3	62.6	61.9	61.9	61.1	61.1	60.4	58.2	55.3	53.1
75°	52.4	52.4	52.4	52.4	50.9	51.7	50.2	49.5	48.0	45.8	43.7
77.5°	42.9	42.9	42.9	42.2	41.5	41.5	40.8	40.0	37.8	36.4	33.5
80°	33.5	33.5	33.5	33.5	32.7	32.0	31.3	30.6	29.1	26.9	24.7
82.5°	24.7	24.7	24.0	24.0	24.0	23.3	22.6	21.8	20.4	18.9	17.5
85°	13.8	14.6	14.6	13.1	13.8	13.1	13.1	11.6	11.6	10.2	9.5
87.5°	5.1	4.4	4.4	4.4	4.4	4.4	4.4	3.6	3.6	3.6	2.9
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°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
2.5°	560.4	559.6	562.6	562.6	558.2	560.4	561.1	559.6	559.6	560.4	558.2
5°	558.9	557.5	560.4	561.1	556.7	558.9	559.6	558.2	558.9	559.6	556.7
7.5°	553.8	553.8	556.0	556.7	552.4	554.6	554.6	553.1	553.8	553.8	551.6
10°	548.7	546.5	548.7	548.7	545.1	545.8	547.3	546.5	549.5	553.1	553.1
12.5°	539.3	537.1	540.7	540.7	538.5	541.5	545.1	547.3	550.2	551.6	547.3
15°	527.6	528.4	534.9	540.0	537.8	542.2	545.8	544.4	540.7	536.4	529.8
17.5°	512.3	510.2	516.0	518.9	516.0	517.4	520.3	517.4	511.6	508.0	499.2
20°	494.9	489.1	489.1	487.6	482.5	482.5	481.8	476.7	474.5	472.3	468.7
22.5°	475.2	468.7	466.5	462.1	457.8	457.0	454.9	449.8	446.8	445.4	441.0
25°	452.7	446.8	443.2	438.8	432.3	430.8	428.7	423.6	422.1	419.9	416.3
27.5°	429.4	422.1	417.0	412.6	406.8	406.1	401.7	398.1	395.2	393.7	390.8
30°	402.5	394.4	390.8	385.0	380.6	379.2	375.5	370.4	368.2	366.8	364.6
32.5°	372.6	366.1	362.4	357.3	351.5	352.2	347.9	343.5	342.0	340.6	338.4
35°	343.5	337.0	332.6	328.2	324.6	323.1	320.2	316.6	314.4	313.7	312.2
37.5°	311.5	306.4	302.7	298.4	295.5	294.0	292.6	288.9	287.5	287.5	284.6
40°	280.2	275.8	272.9	270.7	267.1	266.4	264.9	262.7	262.0	261.3	259.1
42.5°	251.8	246.0	243.8	242.3	240.2	238.7	238.0	236.5	235.8	235.1	232.9
45°	224.9	219.8	217.6	216.1	214.0	213.2	212.5	210.3	208.9	207.4	206.7
47.5°	198.7	195.0	194.3	190.7	189.2	187.8	186.3	184.9	184.1	183.4	180.5
50°	176.1	173.9	170.3	168.1	166.7	165.9	163.0	160.8	160.1	159.4	157.2
52.5°	155.7	152.8	150.6	147.0	146.3	144.8	143.4	140.5	139.0	138.3	136.1
55°	137.5	135.4	132.5	129.5	127.4	126.6	124.4	121.5	120.1	118.6	117.2
57.5°	122.3	118.6	115.7	112.8	111.3	109.2	107.0	105.5	103.3	101.2	99.0
60°	107.7	104.8	101.2	98.2	96.8	95.3	92.4	90.2	88.1	85.9	83.7
62.5°	93.9	91.0	87.3	84.4	83.0	81.5	78.6	76.4	74.2	72.0	69.1
65°	81.5	78.6	75.7	72.8	71.3	69.9	67.0	64.0	61.9	59.7	56.8
67.5°	71.3	67.7	64.8	61.9	60.4	58.9	56.0	53.9	50.9	48.8	45.8
70°	60.4	57.5	55.3	52.4	50.9	49.5	46.6	43.7	41.5	39.3	36.4
72.5°	50.9	47.3	45.1	42.2	40.8	40.0	37.1	34.9	32.7	29.8	27.7
75°	40.8	37.8	34.9	32.7	31.3	30.6	27.7	25.5	23.3	21.1	18.9
77.5°	31.3	29.1	26.2	24.0	22.6	21.8	18.9	16.7	14.6	13.1	10.9
80°	23.3	20.4	18.9	16.7	16.0	14.6	13.1	10.9	9.5	7.3	5.8
82.5°	16.0	13.8	12.4	10.9	10.2	9.5	8.0	6.5	5.1	4.4	3.6
85°	8.7	7.3	6.5	5.8	5.1	5.1	4.4	3.6	2.9	2.2	1.5
87.5°	2.9	2.2	2.2	2.2	2.2	1.5	1.5	1.5	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
2.5°	559.6	559.6	559.6	558.9	558.9	558.9	558.2	561.1	558.2	557.5	559.6
5°	558.9	557.5	557.5	557.5	557.5	556.7	556.0	557.5	555.3	554.6	554.6
7.5°	554.6	553.8	553.8	553.1	552.4	551.6	550.9	551.6	549.5	548.7	548.7
10°	555.3	553.8	553.8	551.6	550.2	548.0	545.8	546.5	543.6	541.5	541.5
12.5°	546.5	542.9	540.7	538.5	537.1	536.4	533.4	534.9	532.0	531.3	531.3
15°	526.9	522.5	518.9	517.4	517.4	516.0	513.8	516.7	515.3	516.0	519.6
17.5°	496.3	494.1	492.0	491.2	492.0	493.4	494.9	499.2	499.2	501.4	505.1
20°	469.4	468.0	469.4	469.4	470.1	473.0	476.0	479.6	481.0	483.2	488.3
22.5°	443.2	443.2	444.7	446.8	446.1	451.2	451.9	458.5	458.5	462.9	467.2
25°	417.7	417.7	419.2	419.9	421.4	424.3	427.2	432.3	433.7	438.1	441.8
27.5°	393.0	392.3	392.3	393.0	394.4	398.1	399.5	405.4	407.5	410.5	414.1
30°	365.3	364.6	366.1	367.5	366.8	370.4	372.6	377.0	378.4	381.3	384.3
32.5°	339.1	339.1	339.1	340.6	340.6	343.5	343.5	348.6	348.6	350.8	353.7
35°	312.2	312.2	312.9	313.7	314.4	315.1	315.8	318.8	319.5	320.2	321.7
37.5°	286.7	286.0	286.7	286.7	285.3	288.2	288.2	291.1	288.9	291.1	291.8
40°	260.5	260.5	259.8	259.8	259.8	261.3	259.8	262.0	260.5	262.0	261.3
42.5°	233.6	233.6	232.2	233.6	232.9	232.9	232.9	234.3	232.2	233.6	234.3
45°	206.7	206.0	206.0	205.2	205.2	205.2	206.0	206.0	205.2	206.7	206.7
47.5°	180.5	179.8	179.8	179.8	179.8	180.5	178.3	179.8	178.3	178.3	178.3
50°	157.9	157.2	156.5	155.7	155.0	155.0	154.3	154.3	152.8	152.1	151.4
52.5°	136.1	135.4	133.9	133.9	133.2	132.5	130.3	130.3	128.1	127.4	127.4
55°	116.4	114.3	113.5	112.1	112.1	110.6	109.2	107.7	105.5	104.1	104.1
57.5°	98.2	96.1	94.6	93.9	93.2	91.7	88.8	88.1	85.1	84.4	83.7
60°	82.2	80.1	77.9	76.4	75.7	73.5	70.6	69.1	67.7	65.5	63.3
62.5°	67.0	64.8	61.9	61.1	59.7	57.5	55.3	53.1	51.7	49.5	48.0
65°	53.9	51.7	49.5	48.0	46.6	44.4	42.2	40.0	38.6	37.8	37.1
67.5°	43.7	40.8	38.6	37.8	36.4	34.9	32.7	32.0	30.6	30.6	30.6
70°	34.2	32.0	29.8	29.1	28.4	26.9	25.5	25.5	25.5	25.5	25.5
72.5°	25.5	24.0	21.8	21.1	20.4	19.6	18.2	18.9	18.2	18.2	18.2
75°	16.0	14.6	13.1	12.4	11.6	10.9	10.2	9.5	8.7	8.0	8.0
77.5°	8.7	7.3	6.5	5.8	5.8	5.1	4.4	4.4	3.6	3.6	3.6
80°	5.1	4.4	3.6	2.9	2.9	2.2	2.2	2.2	2.2	1.5	1.5
82.5°	2.9	2.2	1.5	1.5	1.5	1.5	0.7	0.7	0.7	0.7	0.7
85°	1.5	1.5	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.7	0.0
87.5°	0.7	0.7	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°	560.4	560.4	560.4	560.4	560.4	560.4	560.4	560.4
2.5°	556.0	558.2	556.0	558.2	558.2	558.2	558.2	556.0
5°	552.4	553.8	551.6	553.1	553.8	553.1	553.1	550.9
7.5°	545.8	547.3	545.1	547.3	548.0	547.3	546.5	545.1
10°	539.3	540.0	537.8	539.3	540.7	540.7	540.0	537.8
12.5°	529.1	531.3	529.1	530.5	532.0	532.7	532.7	530.5
15°	517.4	521.1	519.6	521.8	524.0	524.7	524.7	524.0
17.5°	505.8	509.4	507.2	510.9	513.1	514.5	515.3	513.8
20°	489.1	493.4	492.0	494.9	497.8	500.0	500.0	497.8
22.5°	467.2	473.0	472.3	474.5	478.1	478.9	480.3	478.9
25°	443.2	447.6	446.8	449.0	453.4	453.4	454.1	454.1
27.5°	415.6	419.9	419.2	420.6	423.6	424.3	425.0	423.6
30°	385.7	387.9	387.9	390.1	392.3	393.0	393.0	390.8
32.5°	353.0	355.9	357.3	356.6	358.8	360.2	359.5	359.5
35°	323.1	323.9	324.6	325.3	326.0	327.5	326.0	325.3
37.5°	291.1	293.3	291.8	293.3	294.7	294.0	293.3	293.3
40°	262.0	262.7	261.3	262.7	263.4	263.4	263.4	262.0
42.5°	232.9	234.3	232.9	234.3	234.3	234.3	234.3	233.6
45°	203.8	205.2	205.2	206.0	206.0	205.2	205.2	205.2
47.5°	176.8	178.3	176.8	178.3	179.0	177.6	177.6	177.6
50°	151.4	150.6	150.6	151.4	151.4	151.4	151.4	150.6
52.5°	125.2	125.9	125.9	125.9	126.6	125.9	126.6	126.6
55°	102.6	102.6	102.6	103.3	102.6	102.6	103.3	104.1
57.5°	82.2	81.5	80.8	80.8	81.5	80.8	80.8	80.8
60°	63.3	62.6	61.9	61.9	61.9	61.9	61.9	61.1
62.5°	47.3	47.3	47.3	48.0	48.0	48.0	48.0	48.8
65°	37.8	37.8	37.8	37.8	37.8	37.8	37.8	38.6
67.5°	30.6	30.6	30.6	31.3	31.3	31.3	31.3	31.3
70°	25.5	25.5	26.2	25.5	26.2	26.2	26.2	26.2
72.5°	17.5	17.5	17.5	17.5	17.5	16.7	17.5	16.7
75°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.5
77.5°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
80°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
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)