

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: P252459

Luminaire Tested: **LD6B15D010 EU6B10209027 6LBLWW1H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-6)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15D010 EU6B10209027 6LBLWW1H
Description: PORTFOLIO 6 INCH LENS WALLWASH RECESSED DOWNLIGHT, WITH HAZE TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 2700K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1023.0 lumens
Efficiency: N/A
Efficacy: 71.1 lumens/watt
Spacing Criteria (0/90/45): 1.1 / 1.02 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

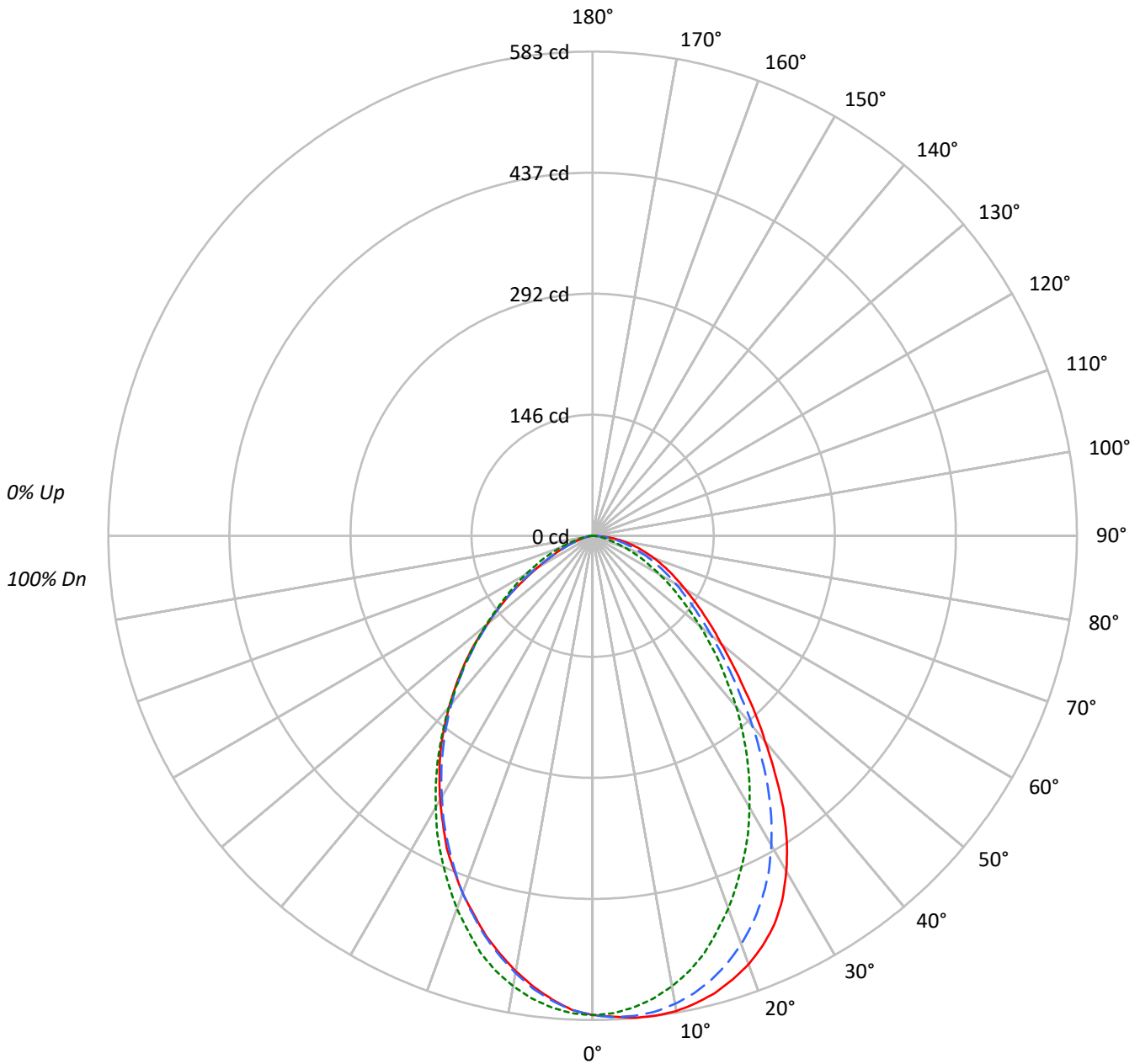
Input Watts (W): 14.39
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	103	100	108	105	101	99	100	98	96	97	95	93	93	91	90	88																			
2	103	96	90	85	100	94	89	84	90	86	82	87	84	80	84	81	79	77																			
3	95	86	79	73	93	84	78	73	81	76	71	79	74	70	76	72	69	67																			
4	88	78	70	64	86	76	69	64	74	68	63	72	66	62	70	65	61	59																			
5	82	70	62	57	80	69	62	56	67	61	56	65	60	55	64	59	55	53																			
6	76	64	56	51	74	63	56	50	62	55	50	60	54	50	59	53	49	47																			
7	71	59	51	46	69	58	51	45	57	50	45	55	49	45	54	49	45	43																			
8	67	54	47	41	65	54	46	41	52	46	41	51	45	41	50	45	41	39																			
9	63	50	43	38	61	50	43	38	49	42	37	48	42	37	47	41	37	35																			
10	59	47	39	35	58	46	39	35	45	39	34	44	38	34	44	38	34	33																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	37650	37650	37650
5°	38161	37323	36694
10°	38496	36482	35257
15°	38492	35135	33622
20°	38123	33166	31777
25°	37216	30925	29888
30°	35143	28438	27655
35°	31858	25789	25470
40°	27508	22935	22867
45°	23592	19966	20114
50°	20502	17082	16838
55°	18415	14400	13490
60°	16728	12135	9930
65°	15715	10019	7302
70°	14993	7802	5360
75°	14343	5646	3630
80°	13563	3907	2405
85°	11977	2395	1198



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.0	5.3
10°-20°	147.9	14.5
20°-30°	205.3	20.1
30°-40°	212.6	20.8
40°-50°	174.7	17.1
50°-60°	120.1	11.7
60°-70°	69.0	6.7
70°-80°	31.7	3.1
80°-90°	7.7	0.8
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°	407.1	39.8
0°-40°	619.7	60.6
0°-60°	914.5	89.4
0°-90°	1023.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1023.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	577	577	577	577	577	
5°	583	580	570	562	560	56
15°	570	553	520	499	498	161
25°	517	482	430	411	415	237
35°	400	367	324	314	320	248
45°	256	236	216	214	218	199
55°	162	147	127	119	119	146
65°	102	89	65	46	47	101
75°	57	45	22	14	14	60
85°	16	11	3	2	2	18
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°	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1
2.5°	579.5	584.3	581.1	580.3	581.9	581.9	581.9	579.5	581.1	578.7	580.3
5°	582.7	586.7	583.5	581.9	583.5	584.3	581.9	580.3	582.7	579.5	580.3
7.5°	582.7	586.7	583.5	582.7	583.5	583.5	582.7	579.5	581.1	577.9	577.9
10°	581.1	584.3	581.1	579.5	580.3	579.5	579.5	575.5	576.3	572.3	572.3
12.5°	576.3	580.3	576.3	574.7	574.7	574.7	572.3	569.1	569.9	565.1	564.3
15°	569.9	573.1	569.1	567.5	567.5	566.7	565.1	560.3	560.3	555.5	553.1
17.5°	560.3	563.5	560.3	557.9	557.1	555.5	553.9	549.1	547.5	541.9	539.5
20°	549.1	551.5	548.3	545.9	544.3	542.7	539.5	534.6	533.0	527.4	523.4
22.5°	534.6	537.8	533.0	530.6	529.0	526.6	523.4	518.6	516.2	509.0	504.2
25°	517.0	518.6	514.6	512.2	509.0	507.4	505.0	498.6	496.2	488.2	482.5
27.5°	494.6	496.2	491.4	489.8	485.7	484.1	480.9	475.3	472.1	464.1	458.5
30°	466.5	468.1	464.9	462.5	459.3	456.1	453.7	448.1	443.3	435.2	430.4
32.5°	435.2	437.7	434.4	431.2	425.6	426.4	422.4	416.8	412.8	405.6	400.0
35°	400.0	401.6	397.6	396.8	393.6	390.4	386.4	382.3	379.9	371.9	367.1
37.5°	360.7	364.7	360.7	357.5	355.9	353.5	351.1	345.5	343.9	339.1	332.6
40°	323.0	325.4	323.0	319.8	317.4	317.4	314.2	311.0	307.0	302.2	299.8
42.5°	289.4	287.8	287.0	285.4	282.1	281.3	280.5	276.5	274.1	269.3	265.3
45°	255.7	256.5	254.9	254.1	251.7	250.1	248.5	245.3	244.5	239.7	236.5
47.5°	227.6	226.8	225.2	225.2	223.6	222.0	220.4	218.0	217.2	213.2	210.0
50°	202.0	202.8	202.0	201.2	198.8	198.0	196.4	194.8	193.2	189.2	186.0
52.5°	181.2	180.4	179.5	179.5	177.1	176.3	174.7	173.1	171.5	167.5	165.1
55°	161.9	161.9	161.1	160.3	157.9	157.1	156.3	154.7	152.3	149.1	146.7
57.5°	144.3	144.3	143.5	142.7	141.1	141.1	139.5	137.9	136.3	133.1	129.9
60°	128.2	129.1	128.2	127.4	125.8	125.8	125.0	122.6	121.8	117.8	115.4
62.5°	114.6	114.6	114.6	113.8	113.0	111.4	111.4	109.0	107.4	105.0	101.8
65°	101.8	101.8	101.8	101.0	99.4	98.6	97.8	96.2	94.6	92.2	89.0
67.5°	89.8	89.8	89.8	89.0	87.4	86.6	85.8	85.0	82.6	80.2	76.9
70°	78.6	78.6	77.8	76.9	76.1	75.3	74.5	72.9	71.3	68.1	65.7
72.5°	67.3	67.3	67.3	65.7	64.9	64.9	63.3	62.5	60.9	57.7	55.3
75°	56.9	56.1	56.1	55.3	54.5	53.7	52.9	52.1	49.7	48.1	44.9
77.5°	46.5	46.5	45.7	44.9	44.9	44.1	43.3	41.7	40.9	38.5	36.1
80°	36.1	36.1	36.1	36.1	35.3	34.5	34.5	32.9	32.1	29.7	28.1
82.5°	27.3	26.5	26.5	26.5	25.6	24.8	24.8	24.0	23.2	21.6	20.0
85°	16.0	15.2	15.2	15.2	14.4	14.4	13.6	13.6	12.8	11.2	11.2
87.5°	4.8	4.8	5.6	5.6	4.8	4.8	4.8	4.8	4.8	4.0	4.0
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):

	50°	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°
0°	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1
2.5°	578.7	581.1	577.9	577.1	580.3	578.7	577.9	576.3	577.1	575.5	573.1
5°	577.9	581.1	577.1	574.7	578.7	576.3	574.7	573.1	573.1	569.9	568.3
7.5°	575.5	577.1	573.1	570.7	573.1	570.7	569.1	566.7	565.9	561.9	559.5
10°	569.1	570.7	565.9	562.7	565.1	561.9	559.5	557.1	555.5	550.7	547.5
12.5°	560.3	561.1	555.5	551.5	553.1	550.7	546.7	543.5	541.9	537.0	533.0
15°	548.3	549.1	542.7	537.0	538.6	535.4	530.6	527.4	525.0	520.2	514.6
17.5°	533.8	533.0	525.8	520.2	521.0	517.0	512.2	507.4	504.2	498.6	494.6
20°	517.8	515.4	507.4	501.0	501.8	497.0	491.4	486.5	482.5	477.7	472.1
22.5°	497.8	494.6	487.3	479.3	480.1	476.1	468.1	464.1	460.1	453.7	448.9
25°	476.1	471.3	464.1	456.1	456.1	451.3	444.9	440.1	436.0	429.6	424.0
27.5°	450.5	448.1	438.5	432.0	431.2	426.4	420.8	415.2	410.4	404.8	399.2
30°	422.4	418.4	411.2	404.0	402.4	398.4	392.8	386.4	383.1	377.5	372.7
32.5°	392.8	388.8	380.7	373.5	372.7	369.5	364.7	358.3	355.1	351.1	347.9
35°	359.1	357.5	349.5	343.9	343.9	340.7	335.9	330.2	327.8	323.8	319.8
37.5°	327.0	324.6	317.4	312.6	312.6	308.6	303.8	301.4	299.0	295.8	293.4
40°	293.4	291.8	286.2	281.3	282.1	278.9	275.7	272.5	270.9	269.3	266.9
42.5°	262.1	260.5	256.5	252.5	252.5	250.1	246.9	244.5	242.9	240.5	239.7
45°	234.1	231.7	228.4	224.4	224.4	222.0	220.4	218.8	218.0	216.4	214.0
47.5°	206.8	205.2	202.0	198.0	198.0	198.0	194.8	192.4	192.4	190.8	190.0
50°	183.6	181.2	178.7	175.5	175.5	173.9	171.5	169.1	169.1	168.3	166.7
52.5°	161.9	160.3	157.1	153.9	153.9	152.3	149.9	149.1	148.3	145.9	145.1
55°	143.5	141.9	139.5	135.5	134.7	133.9	131.5	129.9	129.1	126.6	126.6
57.5°	126.6	125.0	121.0	118.6	117.8	116.2	113.8	112.2	111.4	109.8	108.2
60°	112.2	109.8	106.6	103.4	102.6	101.0	98.6	97.0	96.2	93.0	91.4
62.5°	98.6	96.2	93.0	89.8	89.0	87.4	84.2	82.6	81.0	77.8	76.1
65°	85.8	83.4	80.2	76.9	75.3	74.5	71.3	68.9	67.3	64.9	61.7
67.5°	73.7	71.3	68.1	64.1	64.1	61.7	59.3	56.9	54.5	52.1	49.7
70°	62.5	60.1	56.9	53.7	52.9	51.3	48.9	45.7	44.1	40.9	38.5
72.5°	52.1	49.7	46.5	43.3	42.5	40.9	38.5	35.3	32.9	30.5	28.1
75°	42.5	40.1	36.9	34.5	33.7	32.1	29.7	26.5	24.0	22.4	20.0
77.5°	33.7	31.3	28.9	26.5	25.6	24.0	21.6	20.0	17.6	16.0	13.6
80°	25.6	24.0	21.6	20.0	19.2	17.6	16.0	13.6	12.0	10.4	9.6
82.5°	18.4	16.8	15.2	12.8	12.8	11.2	10.4	8.8	7.2	6.4	5.6
85°	10.4	8.8	8.0	7.2	6.4	6.4	5.6	4.8	4.0	3.2	3.2
87.5°	3.2	3.2	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6	1.6
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°	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1
2.5°	573.1	573.9	572.3	573.9	572.3	573.1	571.5	573.1	571.5	573.1	569.9
5°	567.5	567.5	565.1	566.7	565.1	565.9	562.7	563.5	561.9	563.5	560.3
7.5°	557.9	558.7	554.7	556.3	553.9	553.9	551.5	552.3	549.9	550.7	548.3
10°	546.7	545.9	541.9	543.5	540.3	540.3	537.8	537.8	534.6	535.4	532.2
12.5°	530.6	529.8	525.0	526.6	523.4	523.4	521.0	521.0	517.8	519.4	516.2
15°	512.2	511.4	506.6	507.4	504.2	504.2	501.0	501.8	499.4	501.0	497.8
17.5°	491.4	490.6	485.7	486.5	482.5	483.3	480.9	480.1	478.5	479.3	476.9
20°	469.7	468.1	463.3	464.1	462.5	460.1	458.5	459.3	457.7	459.3	456.9
22.5°	447.3	444.1	440.1	440.1	438.5	438.5	436.0	437.7	434.4	436.9	435.2
25°	421.6	419.2	416.0	417.6	414.4	414.4	412.0	412.8	411.2	412.8	411.2
27.5°	396.8	395.2	390.4	392.0	389.6	390.4	388.0	388.8	388.0	389.6	388.0
30°	370.3	369.5	366.3	366.3	365.5	364.7	363.9	363.9	363.1	365.5	363.9
32.5°	345.5	343.1	339.9	342.3	338.3	340.7	339.1	340.7	339.1	340.7	339.9
35°	319.8	319.0	315.0	315.8	315.0	315.0	314.2	314.2	314.2	316.6	316.6
37.5°	292.6	291.8	289.4	290.2	288.6	287.8	287.8	289.4	289.4	291.0	291.0
40°	266.1	266.9	264.5	264.5	263.7	263.7	263.7	265.3	264.5	266.1	265.3
42.5°	239.7	239.7	237.3	238.1	237.3	238.1	238.1	239.7	239.7	240.5	239.7
45°	214.8	214.8	214.0	214.8	213.2	214.0	213.2	214.8	214.0	214.8	214.8
47.5°	190.0	190.0	190.0	189.2	189.2	189.2	189.2	189.2	188.4	190.0	189.2
50°	166.7	167.5	166.7	166.7	165.9	166.7	165.9	165.9	164.3	165.1	165.1
52.5°	145.9	145.9	144.3	144.3	144.3	143.5	143.5	143.5	142.7	142.7	141.1
55°	125.8	125.8	124.2	124.2	123.4	122.6	121.8	121.8	119.4	119.4	117.0
57.5°	107.4	106.6	104.2	104.2	102.6	101.8	101.0	100.2	98.6	97.0	96.2
60°	90.6	89.0	87.4	86.6	85.0	83.4	81.8	80.2	78.6	77.8	76.9
62.5°	74.5	72.1	70.5	69.7	68.1	65.7	64.1	62.5	60.9	60.1	58.5
65°	60.1	57.7	55.3	54.5	52.9	51.3	48.9	47.3	45.7	44.9	44.9
67.5°	47.3	44.9	41.7	41.7	40.1	38.5	36.9	35.3	34.5	35.3	35.3
70°	35.3	33.7	31.3	30.5	28.9	27.3	26.5	26.5	26.5	27.3	26.5
72.5°	26.5	24.0	22.4	21.6	20.8	20.0	20.0	20.0	19.2	20.0	20.0
75°	18.4	16.8	15.2	15.2	14.4	14.4	14.4	14.4	14.4	14.4	14.4
77.5°	12.8	11.2	10.4	10.4	10.4	9.6	9.6	9.6	9.6	9.6	9.6
80°	8.0	8.0	7.2	7.2	6.4	6.4	6.4	6.4	6.4	6.4	6.4
82.5°	4.8	4.8	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	2.4	2.4	2.4	2.4	2.4	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	1.6	1.6	1.6	1.6	1.6
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°	577.1	577.1	577.1	577.1	577.1	577.1	577.1	577.1
2.5°	569.9	572.3	569.1	571.5	570.7	569.9	568.3	571.5
5°	560.3	561.1	557.9	561.1	560.3	558.7	557.1	560.3
7.5°	546.7	549.1	545.1	548.3	547.5	545.9	544.3	547.5
10°	531.4	533.8	530.6	533.0	533.0	531.4	529.0	532.2
12.5°	514.6	516.2	513.0	516.2	515.4	513.8	513.0	515.4
15°	496.2	498.6	495.4	497.8	497.0	496.2	495.4	497.8
17.5°	476.1	478.5	476.1	478.5	478.5	476.1	475.3	476.9
20°	456.1	457.7	455.3	457.7	456.9	456.9	455.3	457.7
22.5°	433.6	436.0	434.4	436.0	435.2	435.2	434.4	436.0
25°	411.2	413.6	411.2	413.6	412.8	412.8	411.2	415.2
27.5°	388.8	390.4	388.0	391.2	390.4	388.8	389.6	390.4
30°	364.7	366.3	364.7	367.1	367.1	367.1	365.5	367.1
32.5°	340.7	343.1	340.7	343.1	342.3	342.3	341.5	343.1
35°	316.6	317.4	315.8	318.2	318.2	319.0	317.4	319.8
37.5°	291.8	292.6	291.8	292.6	294.2	291.8	293.4	294.2
40°	266.1	267.7	266.9	267.7	267.7	268.5	267.7	268.5
42.5°	240.5	242.1	240.5	242.9	242.1	242.1	242.9	242.9
45°	214.0	216.4	214.8	216.4	217.2	216.4	216.4	218.0
47.5°	189.2	190.8	190.0	190.8	190.8	190.8	190.8	192.4
50°	164.3	165.1	165.1	165.9	165.9	166.7	165.1	165.9
52.5°	139.5	141.1	141.1	141.1	140.3	141.1	141.1	141.1
55°	117.0	117.8	116.2	117.8	117.8	117.0	117.0	118.6
57.5°	95.4	95.4	95.4	95.4	95.4	94.6	95.4	95.4
60°	75.3	76.1	75.3	75.3	75.3	75.3	74.5	76.1
62.5°	58.5	58.5	57.7	58.5	58.5	58.5	59.3	59.3
65°	45.7	46.5	45.7	46.5	46.5	46.5	46.5	47.3
67.5°	36.1	36.1	36.1	36.1	36.1	36.1	36.1	36.1
70°	27.3	27.3	27.3	28.1	27.3	27.3	27.3	28.1
72.5°	20.0	20.0	20.0	20.0	20.0	20.0	20.8	20.8
75°	14.4	14.4	14.4	14.4	14.4	14.4	14.4	14.4
77.5°	9.6	9.6	9.6	10.4	9.6	10.4	9.6	9.6
80°	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
82.5°	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
85°	1.6	1.6	1.6	1.6	1.6	1.6	1.6	1.6
87.5°	1.6	1.6	1.6	1.6	0.8	0.8	0.8	0.8
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)