

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: P252135

Luminaire Tested: **LD6B10D010 EU6B10209030 6LBSW1LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P252135
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1712-453-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B10D010 EU6B10209030 6LBSW1LI
Description: PORTFOLIO 6 INCH SINGLE WALLWASH RECESSED DOWNLIGHT, WITH SPECULAR CLEAR TRIM
Light Source: (1) HIGH LUMEN LED 90CRI / 3000K CCT
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1156.0 lumens
Efficiency: N/A
Efficacy: 115.0 lumens/watt
Spacing Criteria (0/90/45): 1.26 / 1.29 / 1.21
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

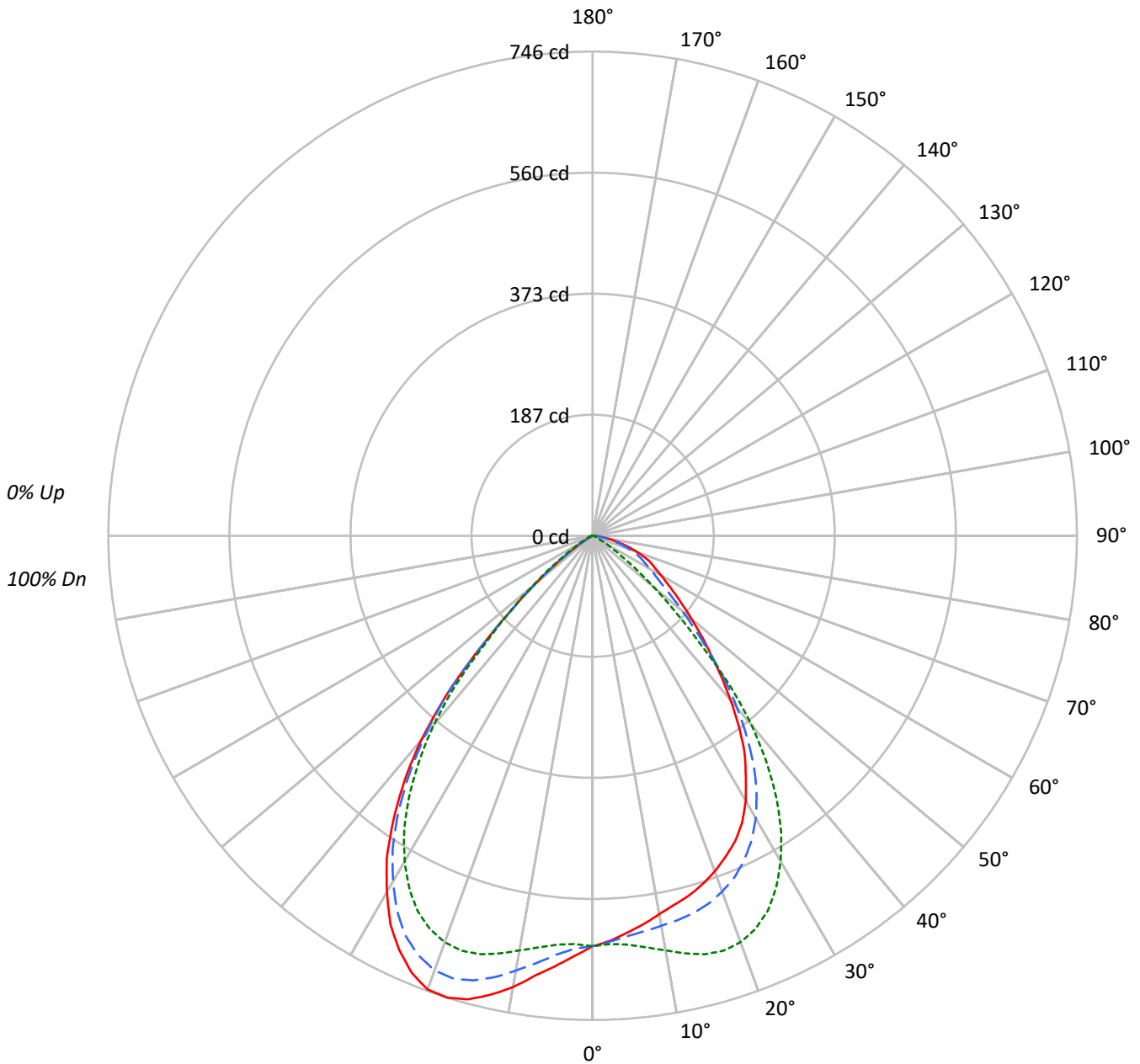
Input Watts (W): 10.05
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	105	98	93	89	102	97	92	88	93	89	86	90	87	84	87	85	82	80																			
3	98	89	83	78	95	88	82	78	85	80	76	83	78	75	80	77	74	72																			
4	91	82	75	69	89	80	74	69	78	72	68	76	71	67	74	70	66	65																			
5	85	75	67	62	83	74	67	62	72	66	61	70	65	61	68	64	60	58																			
6	80	69	61	56	78	68	61	56	66	60	55	64	59	55	63	58	54	53																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	50	48																			
8	70	58	51	46	69	58	51	46	57	50	46	55	50	46	54	49	45	44																			
9	66	54	47	42	64	54	47	42	53	46	42	52	46	42	51	45	42	40																			
10	62	50	43	39	61	50	43	39	49	43	39	48	43	39	47	42	38	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	41258	41258	41258
5°	40191	41416	43597
10°	39212	42974	46784
15°	38756	45084	49941
20°	38199	46260	51633
25°	37389	45919	50706
30°	35527	43633	47731
35°	32503	39344	42618
40°	28113	32491	34960
45°	23712	21313	22872
50°	20127	12332	11601
55°	17471	5915	4470
60°	15775	2766	1109
65°	15314	1590	370
70°	13715	1278	343
75°	11268	907	151
80°	8416	451	0
85°	7261	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	5.3
10°-20°	186.2	16.1
20°-30°	284.4	24.6
30°-40°	297.5	25.7
40°-50°	193.0	16.7
50°-60°	76.6	6.6
60°-70°	36.3	3.1
70°-80°	17.3	1.5
80°-90°	3.5	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°	531.7	46.0
0°-40°	829.2	71.7
0°-60°	1098.8	95.1
0°-90°	1156.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1156.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	632	632	632	632	632	
5°	614	619	632	648	666	58
15°	574	602	668	709	739	162
25°	519	552	638	681	704	238
35°	408	433	494	523	535	252
45°	257	254	231	245	248	200
55°	154	131	52	40	39	139
65°	99	82	10	2	2	97
75°	45	36	4	1	1	48
85°	10	6	0	0	0	11
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°	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4
2.5°	624.6	625.8	619.1	617.3	622.1	624.0	624.6	622.7	623.4	625.8	625.8
5°	613.7	614.9	608.8	607.0	611.9	613.1	614.9	614.3	616.1	619.7	619.1
7.5°	603.4	605.2	598.6	596.1	602.2	605.2	606.4	606.4	608.8	613.7	614.3
10°	591.9	594.3	588.3	587.1	593.7	596.8	597.4	598.6	602.2	608.8	610.1
12.5°	582.2	584.7	580.4	578.6	585.9	588.9	590.1	592.5	596.8	605.2	606.4
15°	573.8	575.6	570.8	569.5	576.8	580.4	581.0	584.7	590.1	599.8	601.6
17.5°	562.9	564.1	560.5	559.3	566.5	570.1	570.8	575.0	581.6	591.3	594.3
20°	550.2	551.4	547.8	546.6	553.8	558.1	558.7	562.3	570.1	580.4	583.4
22.5°	535.1	537.5	533.3	532.1	539.3	542.9	544.8	547.8	555.6	565.9	570.1
25°	519.4	519.4	516.3	515.7	522.4	526.6	526.0	530.2	538.1	548.4	552.0
27.5°	498.8	498.2	495.2	494.6	501.8	505.5	504.2	508.5	515.7	526.0	529.6
30°	471.6	472.8	468.6	467.4	473.4	479.5	478.9	483.1	490.3	500.0	502.4
32.5°	438.9	440.2	439.6	437.7	443.2	446.2	448.0	451.0	457.1	467.4	469.8
35°	408.1	406.3	403.9	403.9	409.3	414.2	412.3	416.0	422.0	432.3	432.9
37.5°	370.0	369.4	368.2	367.0	373.0	374.3	374.9	377.3	382.7	391.2	390.0
40°	330.1	330.7	330.1	327.7	331.3	336.2	335.6	336.8	341.6	347.7	345.8
42.5°	292.6	292.6	292.6	290.2	294.4	296.9	298.1	297.5	298.7	304.1	301.7
45°	257.0	257.6	257.0	256.4	257.0	258.2	257.0	256.4	256.4	258.2	254.5
47.5°	226.1	226.1	224.3	222.5	224.3	224.9	223.1	221.3	220.7	220.1	214.0
50°	198.3	197.7	197.1	194.1	195.9	196.5	194.1	192.9	190.5	187.4	180.2
52.5°	174.1	173.5	172.9	169.9	171.1	171.7	169.3	166.9	163.8	161.4	152.4
55°	153.6	153.0	153.0	151.2	149.9	151.2	148.7	146.9	142.7	139.7	130.6
57.5°	136.0	136.0	134.8	133.0	133.6	133.6	131.2	128.8	125.2	121.5	114.3
60°	120.9	120.9	120.9	119.1	119.1	119.1	117.9	115.5	112.5	108.8	101.6
62.5°	108.8	108.8	108.2	106.4	107.0	107.0	105.8	103.4	100.4	97.9	90.7
65°	99.2	99.2	99.2	97.3	97.3	97.9	96.7	94.3	91.9	88.9	82.2
67.5°	87.1	86.5	86.5	85.3	85.9	86.5	85.3	83.4	80.4	78.6	72.6
70°	71.9	72.6	73.2	71.3	71.9	71.9	71.3	69.5	67.7	65.9	60.5
72.5°	58.6	58.6	58.0	57.4	57.4	58.0	56.8	55.0	53.8	52.6	48.4
75°	44.7	44.1	44.7	43.5	43.5	43.5	42.3	41.7	41.1	39.3	36.3
77.5°	32.6	32.0	32.0	30.8	31.4	31.4	30.8	29.6	28.4	27.8	25.4
80°	22.4	22.4	22.4	21.8	21.8	21.2	21.2	20.6	19.3	18.7	17.5
82.5°	15.1	15.1	15.1	14.5	14.5	14.5	13.9	13.3	12.7	12.1	10.9
85°	9.7	9.7	9.7	9.1	9.1	9.1	8.5	8.5	7.9	7.3	6.0
87.5°	5.4	5.4	5.4	4.8	4.8	4.8	4.8	4.8	4.2	3.6	3.0
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°	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4
2.5°	630.0	621.5	627.0	627.0	625.2	630.0	633.0	635.4	634.8	629.4	628.8
5°	625.2	617.9	624.0	624.6	622.7	629.4	633.6	636.7	637.3	632.4	633.0
7.5°	621.5	615.5	623.4	625.8	625.2	631.2	636.1	640.9	643.3	639.7	640.3
10°	619.7	614.9	623.4	627.0	627.6	634.2	641.5	648.1	651.2	648.7	650.6
12.5°	617.3	614.3	624.0	629.4	631.8	638.5	647.5	655.4	660.2	659.0	662.7
15°	614.9	612.5	624.0	631.8	634.8	640.9	651.2	662.7	668.1	667.5	672.3
17.5°	608.8	608.2	620.3	628.8	633.0	640.3	650.0	663.9	669.3	670.5	676.6
20°	599.2	599.2	612.5	621.5	626.4	633.0	645.1	658.4	665.1	666.3	672.9
22.5°	585.9	587.1	599.8	608.8	616.1	620.9	633.6	647.5	653.6	655.4	662.7
25°	568.3	569.5	581.6	590.7	598.6	604.0	616.1	628.8	636.1	637.9	643.3
27.5°	545.4	547.8	559.3	568.3	575.0	578.6	591.3	604.6	610.1	611.9	617.3
30°	518.8	519.4	530.8	538.7	545.4	548.4	559.3	573.2	577.4	579.2	587.1
32.5°	486.1	485.5	496.4	503.6	509.1	512.7	524.2	533.3	537.5	540.5	544.8
35°	446.8	446.2	454.1	462.5	466.8	468.0	479.5	489.1	491.5	494.0	499.4
37.5°	402.7	402.7	409.3	413.6	418.4	420.2	425.6	436.5	440.8	440.2	444.4
40°	356.1	353.7	358.5	362.8	364.0	364.6	370.0	378.5	381.5	381.5	384.5
42.5°	307.1	303.5	304.1	306.5	307.7	303.5	307.1	312.6	310.8	313.2	313.8
45°	255.1	249.7	247.3	241.8	243.1	238.8	236.4	237.6	237.0	231.0	232.2
47.5°	212.8	203.1	198.9	191.1	189.2	184.4	181.4	175.9	171.1	171.1	168.1
50°	177.2	167.5	159.0	149.9	146.9	142.7	136.0	128.8	125.2	121.5	118.5
52.5°	148.7	138.5	128.2	118.5	114.3	108.8	99.8	92.5	85.9	82.2	78.6
55°	125.8	114.3	103.4	93.1	87.7	82.2	73.2	64.7	56.8	52.0	49.0
57.5°	108.2	97.3	85.9	75.0	70.1	64.1	54.4	45.3	38.1	32.6	29.6
60°	95.5	84.6	74.4	62.9	58.0	52.0	41.7	33.3	26.0	21.2	17.5
62.5°	84.6	75.0	64.1	53.8	49.0	42.9	33.3	24.8	18.1	13.3	10.3
65°	76.8	67.1	58.0	47.8	43.5	37.5	28.4	20.6	14.5	10.3	7.3
67.5°	67.7	59.3	50.2	41.7	37.5	32.6	24.2	17.5	12.1	8.5	6.0
70°	56.8	50.2	42.3	34.5	31.4	27.2	20.0	14.5	9.7	6.7	4.8
72.5°	45.3	39.9	33.9	27.8	25.4	21.2	16.3	11.5	7.3	4.8	3.6
75°	34.5	30.2	25.4	21.2	18.7	16.3	12.1	8.5	5.4	3.6	2.4
77.5°	23.6	21.8	18.1	14.5	13.3	11.5	7.9	5.4	3.6	2.4	1.2
80°	16.3	14.5	12.1	9.7	8.5	7.3	4.8	3.6	1.8	1.2	0.6
82.5°	10.3	8.5	7.3	6.0	5.4	4.2	3.0	1.8	1.2	0.6	0.6
85°	5.4	4.8	4.2	3.0	3.0	2.4	1.8	1.2	0.6	0.0	0.0
87.5°	3.0	2.4	1.8	1.2	1.2	0.6	0.6	0.6	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°	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4
2.5°	636.1	636.1	635.4	642.7	634.2	642.7	638.5	642.7	636.7	636.1	636.7
5°	640.9	642.7	643.3	650.0	642.1	652.4	648.7	652.4	648.1	649.4	651.2
7.5°	650.6	653.6	653.0	661.4	653.6	665.1	662.7	668.1	663.9	665.1	667.5
10°	661.4	665.1	665.7	674.1	666.9	680.8	677.8	683.8	680.2	682.0	685.0
12.5°	674.1	678.4	679.0	688.7	680.8	695.3	693.5	699.5	696.5	698.3	702.0
15°	683.8	689.9	691.1	700.7	692.3	707.4	706.2	714.0	709.2	712.2	715.3
17.5°	688.7	694.1	696.5	705.6	698.3	713.4	712.2	718.9	715.3	718.3	721.9
20°	685.6	692.3	694.1	703.2	695.9	711.0	709.2	715.9	712.2	714.7	718.3
22.5°	674.7	681.4	683.8	692.3	685.6	699.5	698.9	705.0	700.1	703.2	706.2
25°	655.4	662.7	663.9	671.7	664.5	679.0	677.8	684.4	680.8	682.6	686.8
27.5°	627.6	636.1	637.9	644.5	639.1	651.2	651.2	656.6	652.4	652.4	656.6
30°	594.3	602.8	604.0	609.4	604.6	615.5	616.1	621.5	614.9	618.5	619.1
32.5°	553.8	559.3	562.9	567.7	560.5	574.4	572.6	576.8	573.2	573.2	576.2
35°	504.9	511.5	513.3	519.4	513.3	524.2	524.2	526.6	523.0	523.0	527.8
37.5°	451.6	456.5	457.1	463.1	458.3	467.4	466.8	468.6	464.9	467.4	467.4
40°	389.4	393.0	394.2	397.2	396.6	403.3	402.7	403.9	402.1	402.7	403.9
42.5°	316.8	321.7	324.1	326.5	322.9	331.9	330.1	331.9	331.3	331.9	333.7
45°	233.4	237.0	238.8	239.4	238.2	243.7	247.9	244.3	244.9	243.7	246.1
47.5°	168.7	169.3	168.1	171.7	168.7	171.1	172.3	172.9	169.3	168.7	171.1
50°	115.5	118.5	114.3	116.1	115.5	117.9	116.7	117.3	113.7	115.5	114.3
52.5°	76.8	76.2	75.0	75.6	74.4	74.4	74.4	75.6	73.2	71.9	70.7
55°	46.6	45.3	42.9	42.3	42.3	42.9	41.7	40.5	40.5	39.9	39.9
57.5°	27.2	25.4	24.2	23.6	22.4	21.8	21.2	21.2	20.0	20.0	20.0
60°	15.1	13.3	12.1	10.9	10.9	10.3	9.7	9.1	9.1	9.1	8.5
62.5°	7.9	6.7	5.4	4.8	4.8	4.2	3.6	3.6	3.6	3.6	3.0
65°	5.4	4.2	3.6	3.0	3.0	2.4	2.4	2.4	2.4	2.4	2.4
67.5°	4.2	3.6	3.0	2.4	2.4	2.4	1.8	1.8	1.8	1.8	1.8
70°	3.6	2.4	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	2.4	2.4	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
75°	1.8	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2
77.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0
80°	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	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	0.0	0.0	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):

	150°	155°	157.5°	160°	165°	170°	175°	180°
0°	632.4	632.4	632.4	632.4	632.4	632.4	632.4	632.4
2.5°	642.1	641.5	642.1	643.3	640.9	648.1	644.5	648.1
5°	656.0	656.6	657.2	659.0	656.0	665.1	660.2	665.7
7.5°	674.1	674.7	675.4	677.2	675.4	684.4	679.0	683.8
10°	692.9	694.1	694.1	697.1	695.3	703.8	700.1	706.2
12.5°	710.4	711.6	712.8	714.7	713.4	722.5	719.5	724.3
15°	724.3	726.7	727.3	729.8	728.6	738.2	734.6	739.4
17.5°	731.0	733.4	733.4	736.4	735.2	745.5	740.6	746.1
20°	727.3	729.2	729.8	732.8	731.6	741.9	737.0	743.7
22.5°	715.9	716.5	717.1	720.1	719.5	728.6	724.3	728.6
25°	694.7	696.5	695.9	698.3	698.3	705.6	700.7	704.4
27.5°	664.5	666.3	666.3	669.3	666.9	674.1	669.3	674.7
30°	627.6	629.4	628.2	630.6	628.2	635.4	631.8	633.6
32.5°	583.4	583.4	584.1	584.7	583.4	590.1	586.5	590.1
35°	530.8	532.1	532.7	533.3	532.1	536.9	532.7	535.1
37.5°	471.6	474.6	474.0	474.6	472.8	478.9	475.2	476.4
40°	408.1	408.1	407.5	408.7	406.9	411.7	409.3	410.5
42.5°	334.3	336.2	333.7	336.8	331.9	338.6	336.2	334.3
45°	250.9	248.5	247.9	248.5	246.7	247.3	249.1	247.9
47.5°	171.1	171.1	169.9	168.1	170.5	171.1	168.7	168.7
50°	114.9	114.9	113.7	113.1	114.3	113.7	112.5	114.3
52.5°	73.2	70.7	70.7	71.9	70.7	69.5	71.3	70.1
55°	39.9	38.7	38.7	39.9	38.7	38.7	38.1	39.3
57.5°	19.3	20.0	19.3	19.3	19.3	19.3	18.7	19.3
60°	8.5	8.5	8.5	8.5	8.5	8.5	8.5	8.5
62.5°	3.6	3.6	3.0	3.0	3.0	3.0	3.0	3.0
65°	2.4	2.4	2.4	2.4	2.4	2.4	2.4	2.4
67.5°	1.8	1.8	1.8	1.8	1.8	2.4	1.8	1.8
70°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
72.5°	1.8	1.8	2.4	2.4	2.4	2.4	2.4	2.4
75°	1.2	1.2	1.2	0.6	0.6	0.6	0.6	0.6
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	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



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— 0°-180° - - 45°-225° - - - - 90°-270°













(END OF REPORT)