

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: P274432

Luminaire Tested: **LD6B15DE010W2N2050 EU6B1020W2N902050 6LBSW0LI**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P274432
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1808-906-18)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6B15DE010W2N2050 EU6B1020W2N902050 6LBSW0LI
Description: PORTFOLIO 6" W2N RN DOWNLIGHT, SINGLE WALLWASH WITH SPECULAR FINISH
Light Source: W2N 2000K-5000K CCT TUNING RANGE
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1193.5 lumens
Efficiency: N/A
Efficacy: 54.2 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.24 / 1.16
Luminous Opening: Circular (Dia: 0.5' x H: 0')
CIE Type: Direct

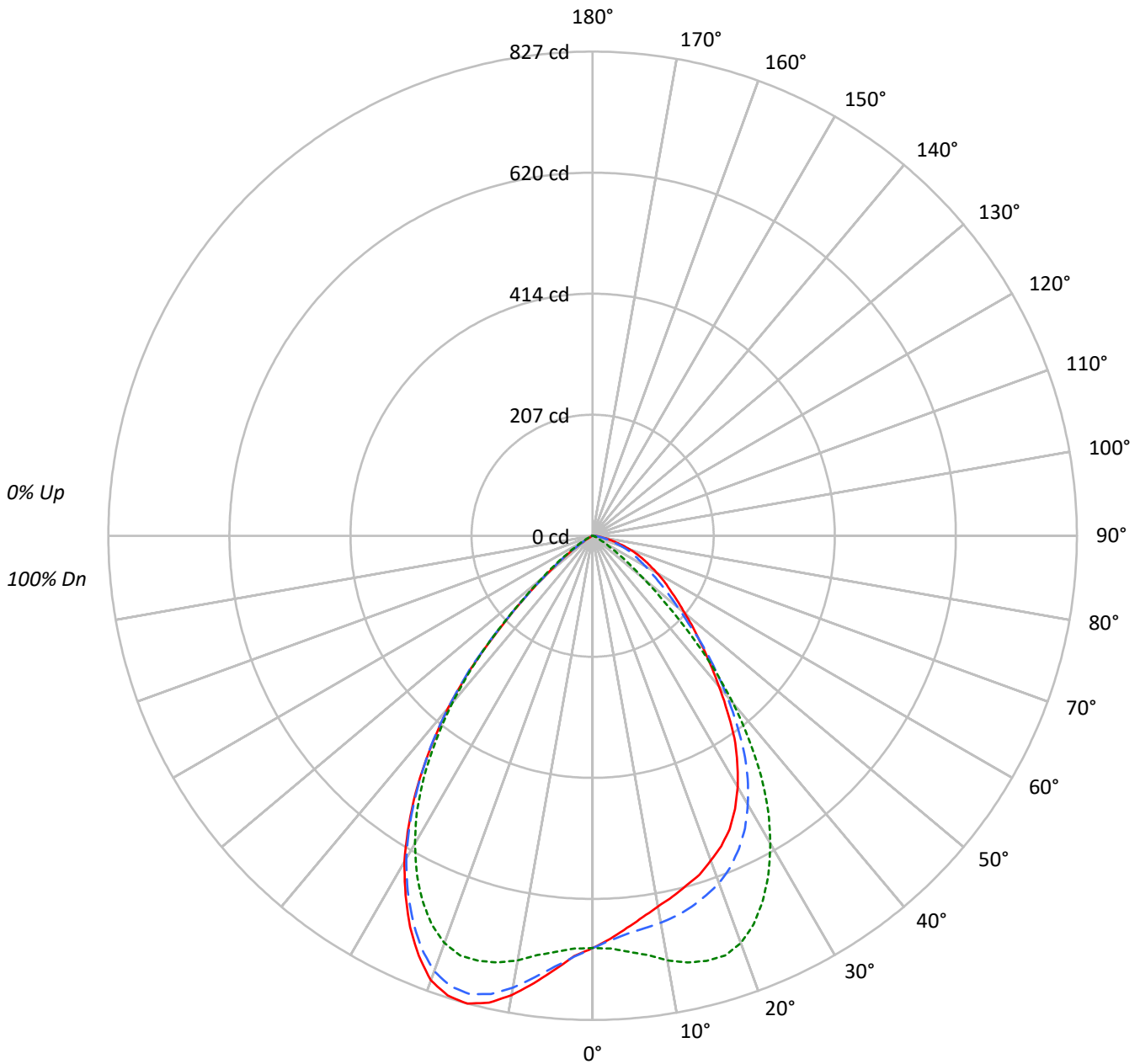
Input Watts (W): 22
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P274432

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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	109	106	103	110	107	104	101	102	100	98	99	97	95	95	94	92	91																			
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	85	83	81																			
3	98	90	84	79	96	89	83	78	86	81	77	83	79	76	81	78	75	73																			
4	92	82	76	70	90	81	75	70	79	73	69	77	72	68	75	71	67	66																			
5	86	76	68	63	84	75	68	63	73	67	62	71	66	62	69	65	61	59																			
6	80	70	62	57	79	69	62	57	67	61	56	66	60	56	64	59	56	54																			
7	75	64	57	52	74	63	57	52	62	56	51	61	55	51	60	55	51	49																			
8	71	59	52	47	69	59	52	47	58	51	47	57	51	47	55	50	47	45																			
9	67	55	48	44	65	55	48	43	54	48	43	53	47	43	52	47	43	41																			
10	63	52	45	40	62	51	45	40	50	44	40	49	44	40	48	43	40	38																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	38610	38610	38610
5°	36996	39247	40942
10°	35782	40987	44338
15°	35102	42656	46947
20°	34437	43176	47137
25°	33462	41591	44615
30°	31366	38417	40690
35°	28282	33589	34880
40°	24009	26664	27487
45°	20351	17769	17374
50°	17475	9612	8631
55°	15416	4769	3546
60°	13902	2105	844
65°	12453	999	337
70°	10675	817	208
75°	8133	551	0
80°	5651	410	0
85°	4843	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	68.4	5.7
10°-20°	206.7	17.3
20°-30°	302.9	25.4
30°-40°	300.3	25.2
40°-50°	188.3	15.8
50°-60°	76.4	6.4
60°-70°	34.0	2.9
70°-80°	14.0	1.2
80°-90°	2.4	0.2
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°	578.0	48.4
0°-40°	878.2	73.6
0°-60°	1143.0	95.8
0°-90°	1193.5	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1193.5	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	704	704	704	704	704	
5°	672	682	713	739	744	63
15°	618	656	752	810	827	175
25°	553	590	688	726	738	253
35°	423	451	502	519	521	261
45°	262	266	229	229	224	204
55°	161	138	50	40	37	146
65°	96	78	8	3	3	95
75°	38	30	3	1	0	42
85°	8	4	0	0	0	9
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°	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3
2.5°	688.9	687.6	687.6	688.9	688.9	688.9	688.9	690.2	690.2	691.5	691.5
5°	672.3	671.0	672.3	674.8	674.8	674.8	676.1	677.4	679.9	679.9	682.5
7.5°	656.9	656.9	659.4	660.7	662.0	662.0	662.0	665.9	668.4	673.5	676.1
10°	642.8	641.5	646.6	647.9	651.8	650.5	651.8	655.6	660.7	664.6	671.0
12.5°	631.3	631.3	635.1	635.1	639.0	641.5	640.2	646.6	650.5	656.9	664.6
15°	618.5	618.5	621.0	623.6	626.2	627.4	628.7	635.1	640.2	646.6	655.6
17.5°	606.9	604.4	606.9	609.5	613.4	613.4	617.2	621.0	628.7	635.1	644.1
20°	590.3	590.3	592.9	594.1	598.0	600.5	601.8	606.9	613.4	621.0	631.3
22.5°	573.7	573.7	576.2	577.5	581.3	582.6	583.9	590.3	595.4	603.1	613.4
25°	553.2	553.2	555.7	557.0	560.9	560.9	564.7	568.5	573.7	582.6	590.3
27.5°	526.3	528.8	528.8	531.4	534.0	535.2	537.8	541.6	546.8	554.4	563.4
30°	495.5	494.3	498.1	499.4	503.2	504.5	508.4	510.9	516.0	523.7	530.1
32.5°	459.7	462.3	463.5	464.8	467.4	468.7	471.2	475.1	480.2	485.3	493.0
35°	422.6	422.6	422.6	423.8	426.4	429.0	430.2	434.1	439.2	445.6	450.7
37.5°	377.7	379.0	381.6	381.6	385.4	386.7	388.0	391.8	396.9	400.8	403.4
40°	335.5	336.8	338.0	338.0	340.6	343.2	341.9	347.0	349.6	353.4	356.0
42.5°	297.1	295.8	299.6	300.9	300.9	303.5	304.8	306.0	307.3	309.9	309.9
45°	262.5	261.2	263.8	263.8	265.1	265.1	266.3	266.3	266.3	268.9	266.3
47.5°	233.0	230.5	231.8	231.8	230.5	231.8	231.8	230.5	229.2	226.6	222.8
50°	204.9	204.9	204.9	203.6	203.6	203.6	202.3	202.3	198.5	195.9	189.5
52.5°	181.8	181.8	181.8	180.5	178.0	179.3	179.3	175.4	172.9	169.0	162.6
55°	161.3	161.3	161.3	160.1	158.8	157.5	156.2	154.9	149.8	147.3	138.3
57.5°	144.7	142.1	142.1	142.1	139.6	139.6	138.3	134.5	130.6	126.8	120.4
60°	126.8	126.8	126.8	124.2	124.2	122.9	121.6	117.8	115.2	110.1	103.7
62.5°	110.1	110.1	108.8	108.8	107.6	106.3	105.0	102.4	99.9	96.0	89.6
65°	96.0	96.0	94.8	94.8	93.5	92.2	92.2	89.6	87.1	83.2	78.1
67.5°	82.0	82.0	80.7	80.7	79.4	78.1	78.1	75.5	73.0	70.4	66.6
70°	66.6	65.3	65.3	65.3	64.0	62.7	62.7	61.5	58.9	56.3	53.8
72.5°	51.2	51.2	51.2	49.9	49.9	48.7	48.7	47.4	46.1	43.5	41.0
75°	38.4	38.4	38.4	37.1	37.1	35.9	35.9	34.6	33.3	32.0	29.5
77.5°	28.2	26.9	26.9	25.6	25.6	25.6	25.6	23.0	23.0	21.8	20.5
80°	17.9	17.9	17.9	17.9	16.6	16.6	16.6	15.4	15.4	14.1	12.8
82.5°	11.5	11.5	11.5	11.5	11.5	10.2	10.2	10.2	9.0	9.0	7.7
85°	7.7	7.7	6.4	6.4	6.4	6.4	6.4	5.1	5.1	5.1	3.8
87.5°	3.8	3.8	3.8	3.8	2.6	2.6	2.6	2.6	2.6	2.6	1.3
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°	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3
2.5°	694.0	694.0	699.1	697.9	699.1	697.9	701.7	703.0	704.3	705.5	706.8
5°	687.6	688.9	692.7	695.3	696.6	696.6	703.0	705.5	709.4	713.2	715.8
7.5°	682.5	686.3	691.5	696.6	699.1	699.1	708.1	711.9	718.4	722.2	727.3
10°	678.7	685.1	691.5	699.1	705.5	705.5	717.1	723.5	729.9	736.3	744.0
12.5°	671.0	681.2	688.9	699.1	705.5	705.5	720.9	729.9	737.6	746.5	756.8
15°	665.9	673.5	686.3	696.6	703.0	705.5	722.2	732.4	741.4	751.6	761.9
17.5°	655.6	664.6	677.4	690.2	697.9	701.7	717.1	727.3	740.1	751.6	758.0
20°	641.5	651.8	664.6	678.7	685.1	688.9	706.8	715.8	728.6	740.1	747.8
22.5°	623.6	633.8	646.6	659.4	665.9	672.3	687.6	697.9	708.1	718.4	724.8
25°	599.3	612.1	622.3	635.1	641.5	646.6	659.4	669.7	678.7	687.6	696.6
27.5°	569.8	581.3	592.9	604.4	609.5	613.4	624.9	635.1	644.1	650.5	658.2
30°	539.1	546.8	558.3	568.5	572.4	574.9	583.9	590.3	600.5	606.9	610.8
32.5°	499.4	508.4	514.8	523.7	527.6	530.1	539.1	544.2	551.9	558.3	563.4
35°	458.4	459.7	467.4	475.1	475.1	478.9	486.6	491.7	495.5	501.9	505.8
37.5°	407.2	409.8	417.4	421.3	421.3	420.0	427.7	430.2	436.6	437.9	441.8
40°	358.5	361.1	362.4	363.7	363.7	363.7	366.2	364.9	371.3	372.6	373.9
42.5°	309.9	308.6	309.9	304.8	304.8	302.2	299.6	299.6	299.6	303.5	304.8
45°	262.5	258.7	251.0	244.6	245.9	240.7	234.3	231.8	229.2	229.2	229.2
47.5°	217.7	210.0	201.0	192.1	187.0	181.8	174.1	167.7	163.9	162.6	161.3
50°	181.8	174.1	162.6	149.8	144.7	138.3	129.3	120.4	116.5	112.7	111.4
52.5°	153.7	143.4	130.6	116.5	110.1	103.7	94.8	87.1	80.7	76.8	74.3
55°	129.3	119.1	105.0	90.9	85.8	78.1	67.9	60.2	53.8	49.9	46.1
57.5°	112.7	101.2	87.1	73.0	66.6	60.2	48.7	41.0	34.6	30.7	28.2
60°	96.0	85.8	73.0	58.9	52.5	46.1	35.9	28.2	21.8	19.2	15.4
62.5°	82.0	73.0	61.5	47.4	41.0	35.9	26.9	19.2	14.1	11.5	9.0
65°	71.7	62.7	52.5	41.0	34.6	29.5	21.8	15.4	11.5	7.7	6.4
67.5°	60.2	52.5	43.5	33.3	29.5	24.3	17.9	12.8	9.0	6.4	5.1
70°	48.7	42.3	34.6	26.9	23.0	19.2	14.1	10.2	6.4	5.1	3.8
72.5°	35.9	32.0	25.6	20.5	16.6	14.1	10.2	7.7	5.1	3.8	2.6
75°	25.6	23.0	17.9	14.1	11.5	10.2	7.7	5.1	3.8	2.6	1.3
77.5°	17.9	15.4	12.8	10.2	7.7	7.7	5.1	3.8	2.6	1.3	1.3
80°	11.5	10.2	7.7	6.4	5.1	3.8	2.6	1.3	1.3	1.3	0.0
82.5°	6.4	5.1	5.1	3.8	2.6	2.6	1.3	1.3	0.0	0.0	0.0
85°	3.8	2.6	2.6	1.3	1.3	1.3	1.3	0.0	0.0	0.0	0.0
87.5°	1.3	1.3	1.3	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):

	100°	105°	110°	112.5°	115°	120°	125°	130°	135°	140°	145°
0°	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3
2.5°	708.1	709.4	710.7	711.9	713.2	713.2	713.2	717.1	719.6	719.6	720.9
5°	718.4	722.2	722.2	726.0	727.3	728.6	729.9	735.0	738.8	736.3	740.1
7.5°	731.2	740.1	740.1	744.0	746.5	747.8	752.9	758.0	760.6	761.9	763.2
10°	749.1	756.8	760.6	761.9	765.7	768.3	774.7	779.8	783.7	786.2	788.8
12.5°	761.9	769.6	773.4	779.8	782.4	786.2	791.3	796.5	801.6	805.4	809.3
15°	769.6	777.3	782.4	786.2	790.1	793.9	799.0	806.7	810.5	813.1	816.9
17.5°	765.7	774.7	778.5	784.9	788.8	791.3	796.5	801.6	806.7	808.0	810.5
20°	752.9	760.6	767.0	769.6	773.4	777.3	781.1	786.2	791.3	791.3	796.5
22.5°	732.4	740.1	744.0	745.2	747.8	754.2	754.2	760.6	763.2	764.4	768.3
25°	700.4	706.8	710.7	713.2	715.8	717.1	720.9	726.0	726.0	728.6	729.9
27.5°	663.3	667.1	671.0	673.5	676.1	676.1	678.7	683.8	683.8	685.1	686.3
30°	618.5	623.6	624.9	627.4	626.2	628.7	632.6	635.1	636.4	635.1	639.0
32.5°	566.0	569.8	572.4	574.9	574.9	576.2	576.2	578.8	580.1	581.3	583.9
35°	507.1	510.9	512.2	513.5	517.3	514.8	516.0	518.6	518.6	521.2	518.6
37.5°	443.0	448.2	452.0	448.2	449.4	452.0	452.0	452.0	454.6	453.3	453.3
40°	377.7	377.7	379.0	381.6	380.3	384.1	382.9	384.1	382.9	384.1	385.4
42.5°	307.3	303.5	308.6	306.0	308.6	308.6	308.6	309.9	311.2	309.9	307.3
45°	226.6	229.2	225.4	225.4	226.6	227.9	227.9	227.9	229.2	226.6	227.9
47.5°	160.1	158.8	157.5	157.5	158.8	157.5	157.5	160.1	157.5	157.5	156.2
50°	111.4	108.8	108.8	106.3	107.6	106.3	107.6	107.6	105.0	106.3	105.0
52.5°	71.7	71.7	69.1	69.1	69.1	69.1	67.9	67.9	67.9	65.3	65.3
55°	44.8	43.5	41.0	41.0	41.0	39.7	38.4	38.4	39.7	38.4	38.4
57.5°	25.6	24.3	21.8	21.8	21.8	20.5	20.5	19.2	19.2	19.2	19.2
60°	14.1	11.5	10.2	10.2	10.2	9.0	9.0	9.0	7.7	7.7	7.7
62.5°	6.4	5.1	5.1	3.8	3.8	3.8	3.8	3.8	2.6	2.6	2.6
65°	5.1	3.8	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
67.5°	3.8	2.6	2.6	2.6	2.6	2.6	2.6	1.3	1.3	2.6	1.3
70°	2.6	2.6	2.6	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	2.6	2.6	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	0.0	1.3	1.3	1.3
77.5°	1.3	1.3	1.3	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	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°	704.3	704.3	704.3	704.3	704.3	704.3	704.3	704.3
2.5°	722.2	723.5	720.9	722.2	722.2	723.5	720.9	718.4
5°	744.0	744.0	742.7	744.0	742.7	744.0	745.2	744.0
7.5°	768.3	769.6	770.9	769.6	769.6	770.9	772.1	770.9
10°	792.6	793.9	796.5	795.2	797.7	799.0	796.5	796.5
12.5°	810.5	813.1	815.7	814.4	816.9	818.2	818.2	816.9
15°	819.5	824.6	824.6	823.3	825.9	828.5	828.5	827.2
17.5°	815.7	819.5	819.5	820.8	822.1	824.6	823.3	823.3
20°	800.3	804.1	802.9	802.9	804.1	808.0	806.7	808.0
22.5°	772.1	773.4	774.7	774.7	774.7	778.5	777.3	776.0
25°	735.0	737.6	737.6	737.6	738.8	738.8	738.8	737.6
27.5°	691.5	692.7	694.0	691.5	691.5	694.0	694.0	691.5
30°	642.8	641.5	642.8	641.5	642.8	642.8	642.8	642.8
32.5°	586.5	585.2	586.5	583.9	585.2	585.2	586.5	583.9
35°	521.2	521.2	525.0	522.4	522.4	521.2	519.9	521.2
37.5°	457.1	455.9	455.9	453.3	453.3	457.1	454.6	452.0
40°	384.1	382.9	384.1	382.9	382.9	384.1	384.1	384.1
42.5°	312.4	311.2	312.4	309.9	309.9	311.2	308.6	307.3
45°	227.9	226.6	229.2	229.2	227.9	227.9	226.6	224.1
47.5°	156.2	156.2	157.5	156.2	156.2	157.5	156.2	157.5
50°	103.7	103.7	105.0	103.7	103.7	103.7	102.4	101.2
52.5°	66.6	65.3	65.3	65.3	65.3	65.3	64.0	64.0
55°	37.1	37.1	37.1	37.1	37.1	35.9	37.1	37.1
57.5°	17.9	17.9	17.9	17.9	17.9	17.9	16.6	17.9
60°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	7.7
62.5°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
65°	2.6	2.6	2.6	2.6	2.6	2.6	2.6	2.6
67.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
70°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
72.5°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.3
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)