

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: P136243

Luminaire Tested: **LD6A10D010TE ERW6A10840 6LW111LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136243  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23359-R2)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A10D010TE ERW6A10840 6LW111LI  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED SINGLE WALL WASH LUMINAIRE  
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER  
Light Source: (1) HIGH LUMEN LED 4000K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1260.0 lumens  
Efficiency: N/A  
Efficacy: 90.0 lumens/watt  
Spacing Criteria (0/90/45): 1.15 / 1.19 / 1.1  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

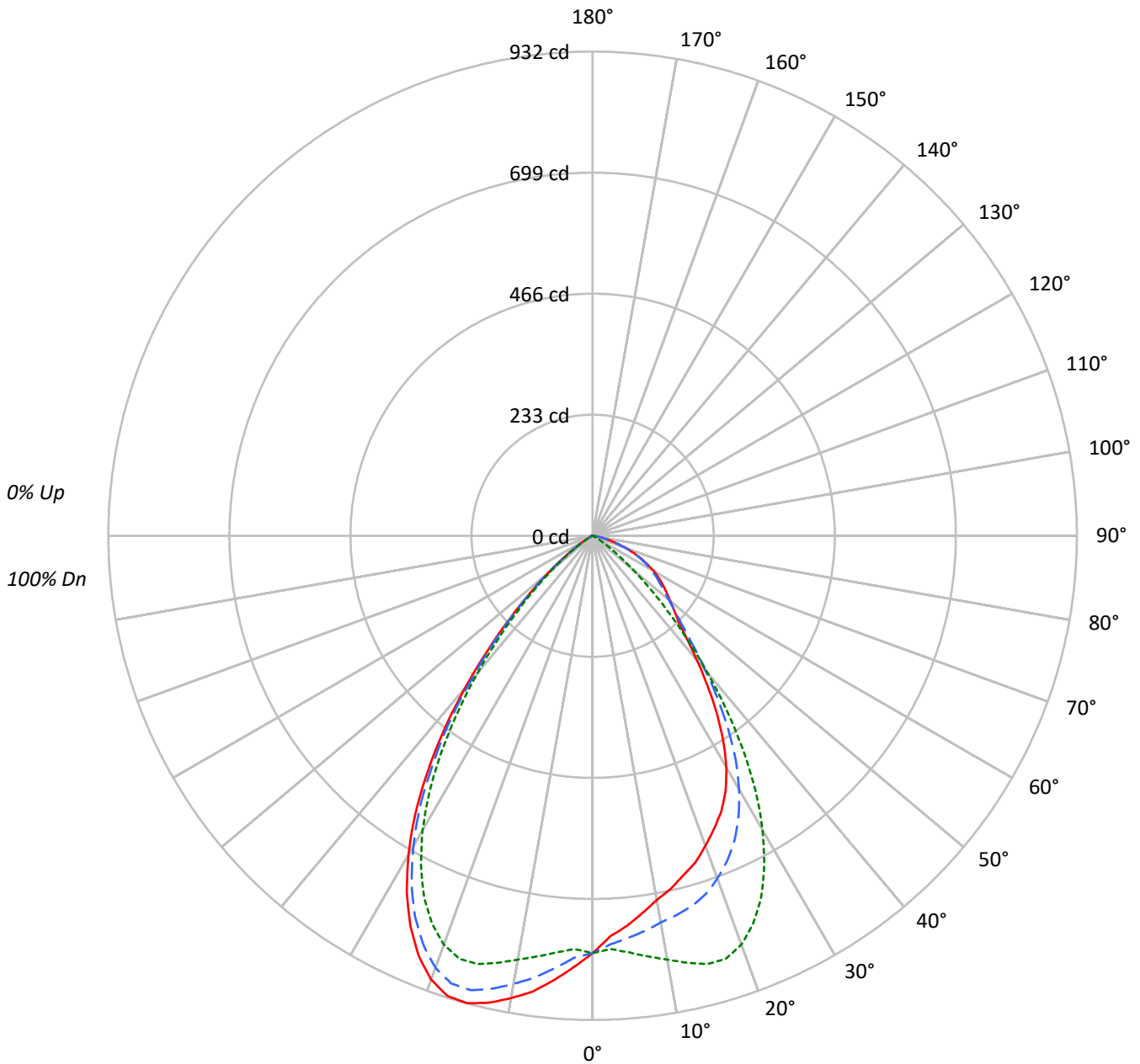
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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					70					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	102	103	100	98	99	97	95	95	94	93	91								
2	105	99	94	90	103	97	93	89	94	90	87	91	88	85	88	86	83	82								
3	98	91	85	80	96	89	84	79	86	82	78	84	80	77	82	78	75	74								
4	92	83	76	71	90	82	76	71	80	74	70	77	73	69	75	71	68	66								
5	86	76	69	64	84	75	69	64	73	68	63	72	67	63	70	66	62	60								
6	81	70	63	58	79	70	63	58	68	62	57	66	61	57	65	60	57	55								
7	76	65	58	53	75	64	58	53	63	57	53	62	56	52	60	56	52	50								
8	72	60	53	49	70	60	53	48	59	53	48	58	52	48	56	51	48	46								
9	68	56	49	45	66	56	49	45	55	49	44	54	48	44	53	48	44	43								
10	64	53	46	41	63	52	46	41	51	45	41	50	45	41	50	45	41	39								

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°
0°	52408	52408	52408
5°	49373	52719	56243
10°	47155	54879	59867
15°	45658	57647	62915
20°	44066	58132	63110
25°	42140	55241	59697
30°	38767	49298	53419
35°	33132	40340	44051
40°	26495	29246	32371
45°	21590	18527	20759
50°	19741	10190	11560
55°	18768	4186	4891
60°	17667	1527	1527
65°	15777	834	695
70°	12647	687	515
75°	8369	454	454
80°	4396	338	338
85°	2021	0	0



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.5	6.2
10°-20°	232.3	18.4
20°-30°	334.3	26.5
30°-40°	307.1	24.4
40°-50°	176.3	14.0
50°-60°	77.9	6.2
60°-70°	38.3	3.0
70°-80°	14.7	1.2
80°-90°	1.7	0.1
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°	644.1	51.1
0°-40°	951.2	75.5
0°-60°	1205.4	95.7
0°-90°	1260.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1260.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	803	803	803	803	803	
5°	754	777	805	836	859	71
15°	676	738	854	906	932	191
25°	585	646	767	809	829	267
35°	416	455	506	535	553	258
45°	234	244	201	220	225	186
55°	165	157	37	40	43	147
65°	102	99	5	4	4	100
75°	33	35	2	2	2	37
85°	3	3	0	0	0	4
90°	0	0	0	0	0	



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	771.9	776.4	771.9	778.2	781.7	783.5	781.7	777.3	783.5	787.1	786.2
5°	753.9	757.5	753.9	760.2	764.7	769.2	767.4	764.7	771.9	777.3	778.2
7.5°	732.4	736.9	734.2	740.5	745.9	751.3	751.3	750.4	759.3	767.4	770.1
10°	711.8	715.4	713.6	719.9	726.2	732.4	734.2	735.1	745.0	755.7	762.0
12.5°	695.7	697.5	695.7	702.8	709.1	716.3	719.9	721.7	734.2	747.7	755.7
15°	676.0	680.4	678.6	685.8	693.0	701.1	705.5	709.1	722.6	737.8	749.5
17.5°	658.9	660.7	658.9	667.0	673.3	682.2	687.6	692.1	706.4	723.5	736.0
20°	634.7	638.3	637.4	644.6	651.7	659.8	665.2	669.7	684.9	702.0	716.3
22.5°	610.5	614.1	614.1	621.3	626.6	635.6	640.1	644.6	658.9	676.9	689.4
25°	585.4	588.1	587.2	593.5	599.8	608.7	612.3	616.8	630.2	646.4	658.0
27.5°	554.0	555.8	557.6	563.0	567.5	575.5	578.2	582.7	593.5	608.7	619.5
30°	514.6	516.4	519.1	523.6	527.1	535.2	537.0	540.6	551.3	563.9	573.8
32.5°	468.0	468.9	473.3	476.9	481.4	486.8	491.3	492.2	500.2	512.8	520.0
35°	416.0	416.9	421.4	424.0	428.5	433.9	437.5	438.4	445.6	455.4	459.9
37.5°	362.2	367.6	366.7	369.4	373.8	378.3	381.9	381.9	387.3	395.4	397.1
40°	311.1	313.8	316.5	318.3	321.8	325.4	328.1	328.1	331.7	337.1	337.1
42.5°	267.2	271.6	271.6	273.4	276.1	279.7	281.5	280.6	282.4	285.1	283.3
45°	234.0	235.8	236.7	239.4	240.3	243.8	244.7	242.9	243.8	243.8	238.5
47.5°	212.5	212.5	212.5	214.3	215.2	217.8	217.8	215.2	214.3	213.4	206.2
50°	194.5	194.5	195.4	197.2	198.1	199.0	199.0	195.4	194.5	191.0	181.1
52.5°	179.3	180.2	180.2	182.0	182.9	183.8	182.9	179.3	176.6	173.0	161.4
55°	165.0	165.9	166.7	168.5	168.5	168.5	167.6	164.1	161.4	156.9	145.2
57.5°	150.6	151.5	151.5	153.3	154.2	154.2	153.3	149.7	147.0	143.4	130.9
60°	135.4	135.4	136.3	138.1	138.1	139.0	138.1	135.4	132.7	128.2	117.4
62.5°	118.3	119.2	120.1	121.9	122.8	122.8	122.8	120.1	118.3	114.8	104.0
65°	102.2	102.2	103.1	104.9	104.9	107.6	105.8	104.0	102.2	98.6	89.6
67.5°	83.4	84.3	84.3	86.1	87.0	87.9	87.9	86.1	85.2	82.5	74.4
70°	66.3	66.3	67.2	68.1	69.0	69.9	69.9	69.0	68.1	65.4	59.2
72.5°	48.4	49.3	49.3	50.2	52.0	52.9	52.9	52.9	51.1	49.3	44.8
75°	33.2	34.1	34.1	35.0	35.9	36.8	36.8	36.8	35.9	35.0	31.4
77.5°	20.6	20.6	21.5	21.5	22.4	23.3	24.2	24.2	23.3	22.4	20.6
80°	11.7	11.7	12.6	12.6	12.6	13.4	14.3	14.3	14.3	13.4	11.7
82.5°	6.3	6.3	6.3	6.3	6.3	7.2	7.2	7.2	7.2	7.2	6.3
85°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	786.2	792.5	797.0	789.8	796.1	802.4	809.5	796.1	808.6	801.5	804.2
5°	781.7	788.9	795.2	790.7	798.8	806.8	816.7	805.0	819.4	814.0	818.5
7.5°	775.5	785.3	794.3	792.5	803.3	814.0	826.6	816.7	831.9	829.3	834.6
10°	770.1	783.5	795.2	795.2	809.5	822.1	835.5	828.4	846.3	843.6	850.8
12.5°	766.5	783.5	798.8	801.5	818.5	832.8	849.0	841.8	861.5	858.8	866.9
15°	762.9	782.6	800.6	805.9	824.8	841.8	858.8	853.5	874.1	871.4	879.5
17.5°	751.3	774.6	794.3	801.5	822.1	840.0	857.9	853.5	874.1	871.4	879.5
20°	731.5	754.8	776.4	784.4	805.0	823.9	840.9	837.3	857.9	855.3	862.4
22.5°	706.4	728.8	749.5	757.5	777.3	794.3	811.3	807.7	827.5	823.0	831.0
25°	671.5	694.8	714.5	720.8	738.7	755.7	771.0	767.4	786.2	780.8	788.9
27.5°	635.6	652.6	668.8	674.2	690.3	704.6	719.0	715.4	733.3	727.1	735.1
30°	587.2	600.6	615.0	617.7	632.9	644.6	657.1	654.4	669.7	664.3	671.5
32.5°	530.7	542.4	552.2	553.1	565.7	575.5	586.3	584.5	598.0	593.5	598.9
35°	468.9	476.0	482.3	481.4	491.3	498.4	508.3	506.5	519.1	514.6	520.0
37.5°	403.4	407.0	408.8	405.2	412.4	417.8	424.9	424.0	434.8	431.2	436.6
40°	339.8	339.8	337.1	330.8	335.3	338.0	343.4	343.4	351.4	347.8	352.3
42.5°	281.5	277.9	271.6	262.7	263.6	267.2	267.2	267.2	273.4	269.8	277.9
45°	234.0	225.9	216.1	204.4	200.8	202.6	200.8	200.8	205.3	202.6	208.9
47.5°	197.2	187.4	170.3	156.0	149.7	148.8	146.1	146.1	148.8	148.8	151.5
50°	169.4	155.1	134.5	117.4	108.5	105.8	102.2	100.4	103.1	102.2	104.0
52.5°	147.0	129.1	104.9	85.2	76.2	69.9	67.2	63.7	64.5	64.5	65.4
55°	128.2	107.6	81.6	61.0	51.1	43.9	40.3	36.8	36.8	35.9	36.8
57.5°	113.9	92.3	66.3	45.7	35.0	27.8	24.2	20.6	19.7	19.7	19.7
60°	101.3	80.7	54.7	35.9	25.1	17.9	14.3	11.7	10.8	9.9	9.9
62.5°	88.8	69.9	46.6	29.6	18.8	13.4	9.9	7.2	6.3	5.4	5.4
65°	76.2	60.1	40.3	25.1	16.1	10.8	7.2	5.4	4.5	3.6	3.6
67.5°	62.8	49.3	34.1	20.6	13.4	9.0	6.3	4.5	3.6	2.7	2.7
70°	50.2	39.4	26.9	17.0	10.8	7.2	4.5	3.6	2.7	2.7	2.7
72.5°	37.7	29.6	20.6	12.6	8.1	5.4	3.6	2.7	1.8	1.8	1.8
75°	26.9	21.5	14.3	9.0	5.4	3.6	2.7	1.8	1.8	1.8	1.8
77.5°	17.0	13.4	9.0	5.4	3.6	1.8	1.8	0.9	0.9	0.9	0.9
80°	9.9	8.1	5.4	3.6	1.8	0.9	0.9	0.9	0.9	0.9	0.9
82.5°	5.4	3.6	2.7	1.8	0.9	0.9	0.9	0.0	0.0	0.0	0.0
85°	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
87.5°	0.9	0.9	0.9	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3	803.3
2.5°	811.3	809.5	815.8	818.5	816.7	813.1	824.8	827.5	819.4	823.0	823.0
5°	827.5	827.5	835.5	839.1	839.1	835.5	849.0	853.5	845.4	849.0	849.9
7.5°	845.4	845.4	855.3	859.7	860.6	857.9	871.4	875.0	869.6	873.2	874.1
10°	861.5	861.5	873.2	877.7	878.6	875.9	889.3	893.8	887.5	891.1	892.0
12.5°	878.6	879.5	891.1	895.6	895.6	892.9	906.4	910.8	903.7	908.1	907.2
15°	891.1	892.0	903.7	908.1	909.0	905.5	918.0	923.4	916.2	918.9	918.9
17.5°	890.2	891.1	901.9	906.4	906.4	903.7	914.4	920.7	913.5	916.2	915.3
20°	872.3	873.2	884.8	888.4	888.4	884.8	894.7	901.0	893.8	895.6	894.7
22.5°	840.0	840.9	851.7	855.3	856.1	851.7	861.5	868.7	860.6	861.5	860.6
25°	797.9	797.9	809.5	809.5	814.0	808.6	815.8	825.7	817.6	817.6	814.9
27.5°	743.2	743.2	754.8	754.8	760.2	754.8	766.5	771.0	763.8	762.9	762.9
30°	679.5	679.5	690.3	690.3	694.8	690.3	702.0	706.4	699.3	698.4	699.3
32.5°	606.9	606.9	617.7	616.8	622.2	618.6	629.3	632.9	627.5	624.9	626.6
35°	527.1	531.6	537.9	537.0	542.4	535.2	548.7	551.3	546.9	547.8	545.1
37.5°	442.9	447.3	451.8	451.8	456.3	454.5	462.6	465.3	461.7	462.6	459.9
40°	358.6	363.1	366.7	366.7	371.1	365.8	376.5	379.2	375.6	372.0	373.8
42.5°	278.8	283.3	286.9	286.0	290.5	289.6	295.8	297.6	294.9	294.0	292.3
45°	209.8	210.7	217.0	219.6	219.6	219.6	224.1	225.0	222.3	222.3	221.4
47.5°	151.5	153.3	157.8	159.6	160.5	159.6	161.4	165.0	162.3	162.3	163.2
50°	104.9	105.8	109.4	111.2	111.2	111.2	112.1	114.8	113.0	113.0	111.2
52.5°	67.2	67.2	69.9	70.8	70.8	70.8	71.7	73.5	71.7	72.6	73.5
55°	37.7	37.7	39.4	40.3	40.3	40.3	41.2	42.1	41.2	42.1	42.1
57.5°	19.7	19.7	20.6	20.6	21.5	21.5	21.5	22.4	22.4	22.4	22.4
60°	9.9	9.9	9.9	10.8	10.8	10.8	10.8	11.7	11.7	11.7	11.7
62.5°	5.4	5.4	5.4	5.4	5.4	5.4	5.4	6.3	6.3	6.3	6.3
65°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6	3.6
67.5°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	3.6	3.6	3.6
70°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7	2.7
72.5°	1.8	1.8	1.8	1.8	1.8	1.8	2.7	2.7	2.7	1.8	1.8
75°	0.9	1.8	1.8	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
77.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
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):**

	165°	170°	175°	180°
0°	803.3	803.3	803.3	803.3
2.5°	815.8	816.7	831.9	831.0
5°	842.7	843.6	858.8	858.8
7.5°	866.9	867.8	883.9	884.8
10°	884.8	886.6	901.9	903.7
12.5°	901.9	901.9	917.1	920.7
15°	912.6	912.6	927.0	931.5
17.5°	909.0	909.0	923.4	928.8
20°	889.3	888.4	901.9	909.0
22.5°	855.3	856.1	866.9	875.0
25°	812.2	810.4	822.1	829.3
27.5°	758.4	759.3	766.5	774.6
30°	693.9	695.7	701.1	709.1
32.5°	621.3	624.0	627.5	635.6
35°	541.5	544.2	546.0	553.1
37.5°	455.4	459.0	459.9	467.1
40°	370.3	373.8	373.8	380.1
42.5°	290.5	293.2	292.3	297.6
45°	219.6	221.4	220.5	225.0
47.5°	160.5	162.3	160.5	164.1
50°	111.2	113.0	111.2	113.9
52.5°	71.7	72.6	70.8	73.5
55°	41.2	42.1	41.2	43.0
57.5°	23.3	22.4	21.5	23.3
60°	11.7	11.7	11.7	11.7
62.5°	6.3	6.3	6.3	6.3
65°	3.6	3.6	3.6	4.5
67.5°	3.6	3.6	3.6	3.6
70°	2.7	2.7	2.7	2.7
72.5°	1.8	1.8	1.8	1.8
75°	1.8	1.8	1.8	1.8
77.5°	0.9	0.9	0.9	0.9
80°	0.0	0.0	0.0	0.9
82.5°	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0



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















(END OF REPORT)