

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: P136396

Luminaire Tested: **LD6A15D010TE ERW6A15927 6LW111H**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P136396
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23375)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: io LED
Catalog Number: LD6A15D010TE ERW6A15927 6LW111H
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED SINGLE WALL WASH LUMINAIRE
SEMI-SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER
Light Source: (1) HIGH LUMEN LED 2700K
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1318.9 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Spacing Criteria (0/90/45): 1.15 / 1.17 / 1.12
Luminous Opening: Circular (Dia: 0.46' x H: 0')
CIE Type: Direct

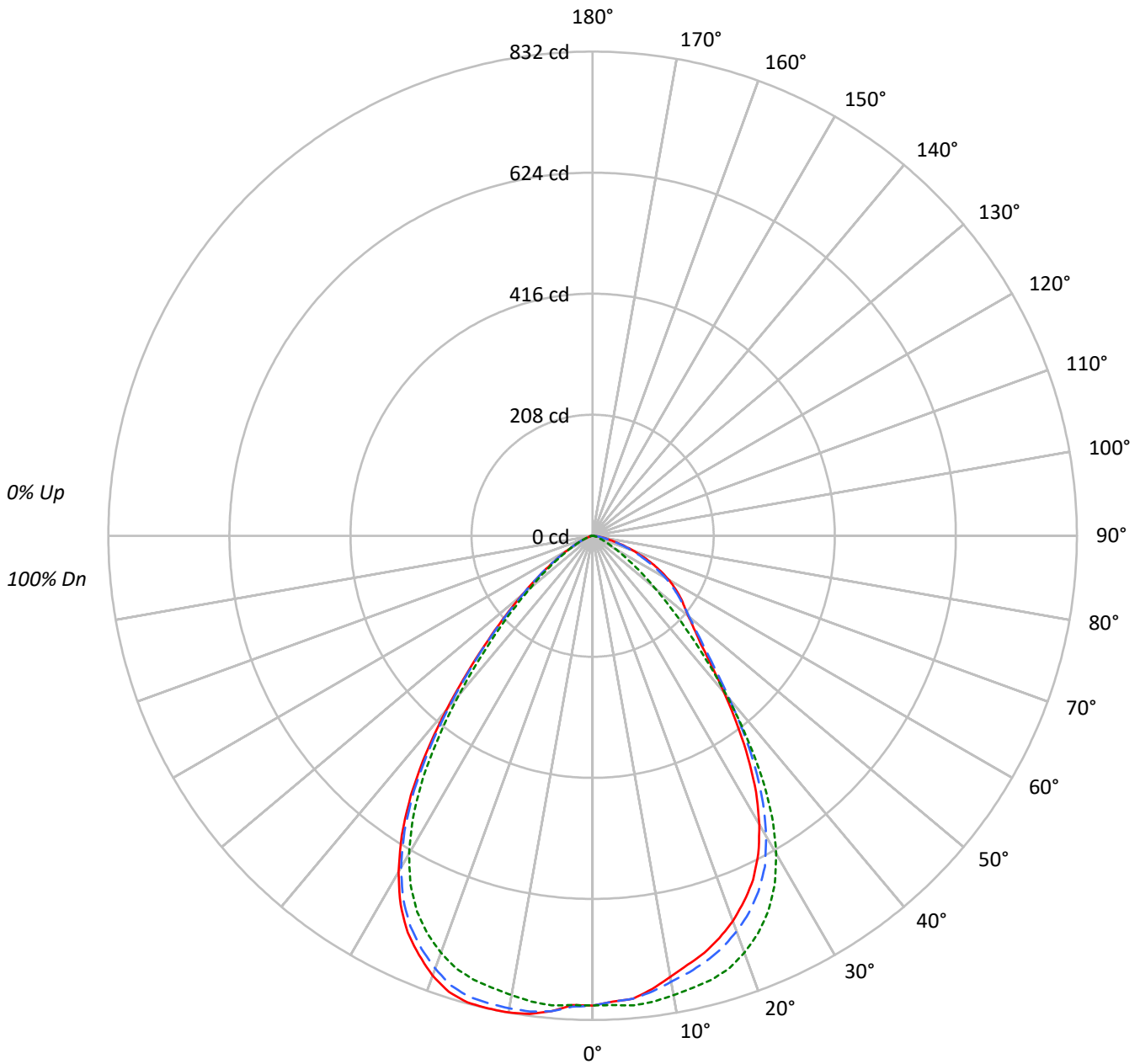
Input Watts (W): 22.6
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: P136396

CATALOG NUMBER: LD6A15D010TE ERW6A15927 6LW111H

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	102	109	106	103	101	102	100	98	98	96	95	95	93	92	90																			
2	104	98	93	89	102	96	92	88	93	89	86	90	87	84	87	84	82	80																			
3	97	89	83	78	95	88	82	77	85	80	76	82	78	75	80	76	73	72																			
4	91	81	74	69	89	80	74	69	78	72	68	76	71	67	74	69	66	64																			
5	85	74	67	62	83	73	67	61	71	65	61	70	64	60	68	63	60	58																			
6	79	68	61	56	78	68	61	55	66	60	55	64	59	55	63	58	54	52																			
7	74	63	56	51	73	62	55	50	61	55	50	60	54	50	58	53	49	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	65	54	47	42	53	46	42	52	46	42	51	46	42	40																			
10	62	51	44	39	61	50	43	39	49	43	39	48	43	39	48	42	39	37																			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	52662	52662	52662
5°	52294	53047	53715
10°	50977	53090	55104
15°	50116	53345	56080
20°	48912	52925	55834
25°	46956	51333	54147
30°	43151	47513	50232
35°	37090	40435	43318
40°	29816	30430	33266
45°	24284	21082	23352
50°	21720	14098	16006
55°	20895	9213	10533
60°	19624	5859	6615
65°	17413	3566	3798
70°	14077	2213	2213
75°	9856	1462	1462
80°	6500	1090	1090
85°	3219	1123	1123



TEST NUMBER: P136396

CATALOG NUMBER: LD6A15D010TE ERW6A15927 6LW111H

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.9	5.8
10°-20°	221.6	16.8
20°-30°	322.7	24.5
30°-40°	313.0	23.7
40°-50°	197.8	15.0
50°-60°	110.2	8.4
60°-70°	54.6	4.1
70°-80°	19.2	1.5
80°-90°	3.0	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°	621.1	47.1
0°-40°	934.1	70.8
0°-60°	1242.1	94.2
0°-90°	1318.9	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1318.9	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	807	807	807	807	807	
5°	798	798	810	820	820	75
15°	742	756	790	820	830	209
25°	652	674	713	741	752	298
35°	466	488	508	535	544	289
45°	263	270	228	250	253	208
55°	184	179	81	93	93	164
65°	113	104	23	25	25	111
75°	39	36	6	6	6	44
85°	4	4	2	2	2	7
90°	0	0	0	0	0	



TEST NUMBER: P136396

CATALOG NUMBER: LD6A15D010TE ERW6A15927 6LW111H

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2
2.5°	801.4	794.1	797.0	795.6	797.0	795.6	799.9	795.6	798.5	801.4	795.6
5°	798.5	791.2	792.7	792.7	792.7	792.7	797.0	792.7	795.6	798.5	794.1
7.5°	785.4	779.6	781.1	781.1	781.1	781.1	785.4	782.6	785.4	789.8	785.4
10°	769.5	763.8	766.6	766.6	766.6	766.6	772.4	769.5	772.4	778.2	773.9
12.5°	755.0	750.7	753.7	753.7	753.7	755.0	759.4	758.0	760.8	768.1	763.8
15°	742.0	737.7	740.6	740.6	740.6	742.0	746.4	747.9	750.7	756.5	753.7
17.5°	724.7	720.3	724.7	724.7	723.3	726.1	731.9	731.9	734.8	742.0	740.6
20°	704.5	700.1	704.5	704.5	703.0	705.9	711.7	713.1	716.0	723.3	721.8
22.5°	679.9	678.4	679.9	682.7	681.3	682.7	688.5	690.0	692.9	701.5	700.1
25°	652.3	651.0	653.8	655.3	653.8	655.3	661.0	662.5	665.4	674.1	674.1
27.5°	616.2	614.8	619.1	619.1	619.1	622.0	626.4	629.2	630.7	640.8	639.4
30°	572.8	571.4	574.2	575.7	575.7	575.7	581.5	585.8	587.2	596.0	596.0
32.5°	522.2	522.2	523.6	526.5	525.1	528.0	532.3	535.2	538.1	545.3	545.3
35°	465.7	467.2	468.7	471.6	470.1	471.6	475.9	478.8	480.2	487.5	486.0
37.5°	406.4	407.9	409.4	410.8	410.8	412.2	416.6	418.0	419.5	425.2	422.4
40°	350.1	350.1	351.5	354.4	352.9	355.9	358.7	360.2	360.2	364.5	361.6
42.5°	300.9	302.3	303.7	305.2	305.2	306.7	309.5	311.0	311.0	312.4	308.1
45°	263.2	264.7	264.7	267.6	267.6	269.0	270.5	272.0	270.5	270.5	266.2
47.5°	235.8	237.2	238.6	240.1	240.1	241.6	243.1	243.1	241.6	240.1	234.3
50°	214.0	217.0	217.0	218.5	219.8	221.3	221.3	221.3	218.5	217.0	208.3
52.5°	198.2	199.6	201.1	202.5	202.5	203.9	205.4	203.9	201.1	196.7	188.1
55°	183.7	185.1	186.6	188.1	188.1	188.1	188.1	186.6	183.7	179.4	170.7
57.5°	167.8	169.3	170.7	172.1	172.1	172.1	172.1	170.7	167.8	162.0	151.9
60°	150.4	151.9	153.3	154.8	154.8	154.8	153.3	151.9	149.0	144.7	134.6
62.5°	131.6	133.1	134.6	134.6	134.6	133.1	133.1	131.6	128.8	124.4	114.3
65°	112.8	112.8	114.3	114.3	114.3	114.3	112.8	111.3	108.5	104.2	96.9
67.5°	92.6	94.0	94.0	94.0	94.0	94.0	92.6	92.6	89.7	85.4	79.6
70°	73.8	73.8	75.2	75.2	75.2	75.2	73.8	73.8	70.9	68.0	62.2
72.5°	55.0	55.0	55.0	56.5	56.5	56.5	55.0	55.0	53.5	50.7	46.3
75°	39.1	39.1	39.1	40.5	40.5	40.5	40.5	39.1	37.6	36.2	33.2
77.5°	26.1	27.4	26.1	26.1	26.1	27.4	26.1	26.1	26.1	24.6	21.7
80°	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3	15.9	15.9	14.5
82.5°	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	8.7	8.7
85°	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3	4.3
87.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



TEST NUMBER: P136396

CATALOG NUMBER: LD6A15D010TE ERW6A15927 6LW111H

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2
2.5°	799.9	802.8	805.7	802.8	798.5	807.2	805.7	807.2	805.7	802.8	811.5
5°	798.5	801.4	805.7	802.8	799.9	808.5	807.2	810.0	810.0	807.2	815.8
7.5°	789.8	792.7	799.9	797.0	794.1	802.8	804.2	807.2	808.5	805.7	815.8
10°	779.6	782.6	789.8	788.4	786.9	797.0	798.5	801.4	802.8	801.4	811.5
12.5°	769.5	773.9	781.1	779.6	779.6	789.8	791.2	795.6	798.5	797.0	808.5
15°	759.4	765.2	773.9	772.4	772.4	784.0	785.4	789.8	792.7	792.7	804.2
17.5°	746.4	752.2	760.8	759.4	762.3	771.0	773.9	779.6	782.6	781.1	794.1
20°	727.6	734.8	743.5	742.0	743.5	755.0	758.0	762.3	765.2	765.2	776.8
22.5°	705.9	713.1	721.8	720.3	723.3	731.9	734.8	740.6	743.5	742.0	753.7
25°	679.9	687.1	694.3	694.3	695.7	705.9	708.8	713.1	717.5	716.0	726.1
27.5°	645.2	652.3	659.6	658.1	659.6	669.8	672.6	676.9	681.3	679.9	690.0
30°	600.3	607.5	613.3	611.8	613.3	623.4	624.9	630.7	635.0	635.0	643.7
32.5°	548.2	555.5	558.3	555.5	558.3	565.6	568.4	574.2	577.2	578.6	587.2
35°	489.0	493.3	494.7	491.8	491.8	499.0	501.9	507.7	510.6	512.1	519.3
37.5°	423.8	426.7	423.8	419.5	420.9	423.8	428.2	432.5	436.8	438.3	445.5
40°	360.2	358.7	354.4	347.1	345.7	350.1	352.9	357.3	360.2	363.1	367.4
42.5°	303.7	300.9	292.2	283.5	282.1	282.1	283.5	287.8	290.8	292.2	297.9
45°	258.9	253.1	240.1	230.0	224.2	225.6	225.6	228.5	230.0	232.9	237.2
47.5°	224.2	214.0	198.2	185.1	179.4	177.9	177.9	179.4	180.8	183.7	186.6
50°	196.7	183.7	164.9	150.4	143.2	140.3	140.3	138.9	141.7	143.2	146.1
52.5°	175.0	159.1	137.4	121.5	112.8	110.0	108.5	108.5	108.5	110.0	112.8
55°	154.8	137.4	114.3	98.4	88.2	85.4	82.4	81.0	82.4	83.9	85.4
57.5°	137.4	118.6	95.5	78.1	69.4	65.1	62.2	60.8	60.8	62.2	63.6
60°	120.1	101.2	78.1	62.2	53.5	49.2	46.3	44.9	44.9	46.3	46.3
62.5°	101.2	83.9	63.6	49.2	40.5	36.2	33.2	33.2	31.9	31.9	33.2
65°	85.4	69.4	52.0	39.1	30.4	27.4	24.6	23.1	23.1	21.7	23.1
67.5°	69.4	56.5	41.9	30.4	23.1	20.3	17.3	17.3	15.9	15.9	15.9
70°	55.0	44.9	33.2	23.1	18.8	14.5	13.0	11.6	11.6	11.6	11.6
72.5°	40.5	33.2	24.6	17.3	13.0	11.6	10.1	8.7	7.3	7.3	7.3
75°	28.9	23.1	17.3	13.0	10.1	8.7	7.3	5.8	5.8	5.8	5.8
77.5°	20.3	15.9	13.0	8.7	7.3	5.8	4.3	4.3	4.3	4.3	2.9
80°	13.0	10.1	8.7	5.8	4.3	4.3	2.9	2.9	2.9	2.9	2.9
82.5°	7.3	5.8	4.3	4.3	2.9	2.9	1.5	1.5	1.5	1.5	1.5
85°	2.9	2.9	2.9	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
87.5°	1.5	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



TEST NUMBER: P136396

CATALOG NUMBER: LD6A15D010TE ERW6A15927 6LW111H

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2	807.2
2.5°	802.8	808.5	808.5	811.5	807.2	810.0	814.3	813.0	808.5	810.0	811.5
5°	808.5	814.3	815.8	820.2	815.8	820.2	826.0	824.5	820.2	823.1	824.5
7.5°	808.5	815.8	818.7	823.1	820.2	824.5	831.8	830.3	826.0	828.8	831.8
10°	805.7	813.0	817.3	821.6	818.7	824.5	830.3	830.3	827.4	830.3	834.6
12.5°	802.8	810.0	814.3	818.7	815.8	823.1	830.3	828.8	827.4	830.3	834.6
15°	798.5	805.7	810.0	814.3	813.0	820.2	827.4	827.4	824.5	828.8	833.1
17.5°	788.4	795.6	801.4	804.2	802.8	810.0	817.3	817.3	814.3	818.7	823.1
20°	771.0	778.2	784.0	786.9	785.4	791.2	798.5	799.9	797.0	801.4	805.7
22.5°	749.3	755.0	760.8	763.8	762.3	768.1	775.3	776.8	773.9	778.2	781.1
25°	723.3	727.6	733.4	736.2	734.8	740.6	747.9	747.9	746.4	749.3	752.2
27.5°	687.1	692.9	697.2	700.1	700.1	704.5	710.2	711.7	710.2	713.1	717.5
30°	642.2	645.2	651.0	652.3	653.8	658.1	663.9	663.9	662.5	665.4	669.8
32.5°	585.8	590.2	594.5	596.0	597.4	601.8	606.1	607.5	606.1	609.0	613.3
35°	519.3	523.6	528.0	529.4	530.9	535.2	539.5	541.0	539.5	542.5	546.8
37.5°	445.5	448.4	452.8	454.2	457.1	459.9	462.9	465.7	464.4	467.2	470.1
40°	370.3	371.7	376.0	377.5	380.5	383.3	386.2	387.6	387.6	389.1	390.6
42.5°	299.4	302.3	305.2	306.7	309.5	311.0	313.9	315.4	315.4	316.8	318.2
45°	238.6	241.6	244.4	245.9	248.8	250.2	251.7	253.1	251.7	251.7	254.6
47.5°	188.1	190.9	193.9	195.3	196.7	198.2	199.6	199.6	199.6	201.1	201.1
50°	147.5	149.0	151.9	151.9	154.8	154.8	156.2	156.2	156.2	156.2	157.7
52.5°	114.3	115.7	118.6	118.6	120.1	121.5	121.5	121.5	121.5	123.0	121.5
55°	86.8	88.2	89.7	89.7	92.6	92.6	92.6	92.6	92.6	92.6	92.6
57.5°	65.1	66.5	68.0	68.0	68.0	69.4	68.0	69.4	69.4	69.4	69.4
60°	47.7	49.2	49.2	49.2	50.7	50.7	50.7	50.7	50.7	50.7	50.7
62.5°	33.2	33.2	34.7	34.7	34.7	36.2	34.7	34.7	36.2	36.2	34.7
65°	23.1	23.1	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6	24.6
67.5°	15.9	15.9	15.9	17.3	17.3	17.3	17.3	17.3	17.3	17.3	17.3
70°	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6	11.6
72.5°	7.3	7.3	7.3	7.3	8.7	8.7	8.7	8.7	8.7	8.7	8.7
75°	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8	5.8
77.5°	2.9	2.9	4.3	4.3	4.3	2.9	2.9	2.9	4.3	4.3	2.9
80°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9
82.5°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5	1.5	1.5	1.5	0.0	1.5	1.5	1.5
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



TEST NUMBER: P136396

CATALOG NUMBER: LD6A15D010TE ERW6A15927 6LW111H

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	807.2	807.2	807.2	807.2
2.5°	811.5	810.0	811.5	807.2
5°	824.5	823.1	826.0	820.2
7.5°	833.1	831.8	834.6	828.8
10°	834.6	834.6	837.6	831.8
12.5°	834.6	834.6	837.6	831.8
15°	834.6	833.1	836.1	830.3
17.5°	824.5	824.5	827.4	821.6
20°	805.7	805.7	808.5	804.2
22.5°	782.6	782.6	784.0	779.6
25°	753.7	752.2	755.0	752.2
27.5°	717.5	716.0	717.5	714.6
30°	668.3	666.8	669.8	666.8
32.5°	613.3	610.4	613.3	610.4
35°	545.3	542.5	545.3	543.9
37.5°	470.1	467.2	470.1	468.7
40°	390.6	389.1	392.0	390.6
42.5°	318.2	315.4	318.2	316.8
45°	254.6	251.7	254.6	253.1
47.5°	201.1	199.6	202.5	201.1
50°	157.7	156.2	157.7	157.7
52.5°	121.5	120.1	121.5	121.5
55°	92.6	91.1	92.6	92.6
57.5°	69.4	68.0	69.4	69.4
60°	50.7	50.7	50.7	50.7
62.5°	36.2	34.7	36.2	36.2
65°	24.6	24.6	24.6	24.6
67.5°	17.3	17.3	17.3	17.3
70°	11.6	11.6	11.6	11.6
72.5°	8.7	8.7	8.7	7.3
75°	5.8	5.8	5.8	5.8
77.5°	4.3	2.9	4.3	4.3
80°	2.9	2.9	2.9	2.9
82.5°	1.5	1.5	1.5	1.5
85°	1.5	1.5	1.5	1.5
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)