

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: P136486

Luminaire Tested: **LD6A10D010TE ERW6A10935 6LW121LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136486  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P23360)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: io LED  
Catalog Number: LD6A10D010TE ERW6A10935 6LW121LI  
Description: PORTFOLIO 6 INCH 60 DEGREE CUTOFF RECESSED DOUBLE WALL WASH LUMINAIRE  
SPECULAR CLEAR TRIM AND SPECULAR CLEAR KICKER  
Light Source: (1) HIGH LUMEN LED 3500K  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1127.3 lumens  
Efficiency: N/A  
Efficacy: 80.5 lumens/watt  
Spacing Criteria (0/90/45): 1.13 / 1.24 / 1.14  
Luminous Opening: Circular (Dia: 0.46' x H: 0')  
CIE Type: Direct

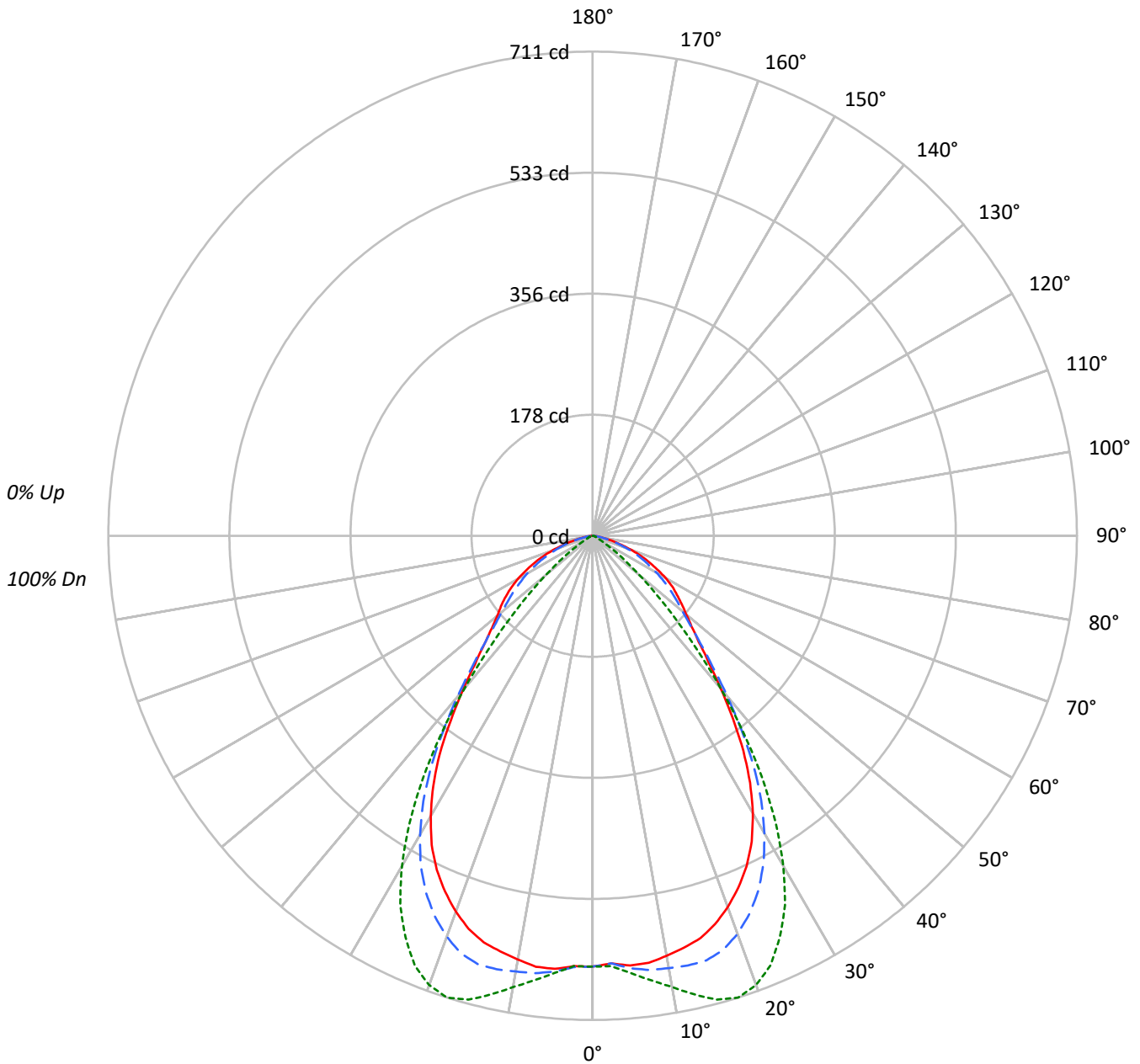
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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									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	108	105	102	109	106	103	100	102	99	97	98	96	94	94	93	91	89																			
2	104	97	92	88	101	96	91	87	92	88	85	89	86	83	86	83	81	79																			
3	97	88	82	76	94	87	81	76	84	79	74	81	77	73	79	75	72	70																			
4	90	80	73	67	88	79	72	67	77	71	66	74	69	65	72	68	65	63																			
5	84	73	66	60	82	72	65	60	70	64	59	68	63	59	67	62	58	56																			
6	78	67	60	54	77	66	59	54	65	58	54	63	57	53	62	57	53	51																			
7	73	62	54	49	72	61	54	49	60	53	49	58	53	48	57	52	48	46																			
8	69	57	50	45	68	57	50	45	55	49	44	54	48	44	53	48	44	42																			
9	65	53	46	41	64	53	46	41	52	45	41	51	45	41	50	44	40	39																			
10	61	49	42	38	60	49	42	38	48	42	38	47	42	37	46	41	37	36																			

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

	0°	90°	180°
0°	41271	41271	41271
5°	41481	42221	41802
10°	41484	44584	41855
15°	41315	47631	41748
20°	40282	48738	40782
25°	38512	46812	38973
30°	35437	42187	35798
35°	30719	34574	31165
40°	24877	24877	25218
45°	20326	15777	20704
50°	18178	9013	18503
55°	17164	4584	17710
60°	16114	1996	16532
65°	14079	1127	14573
70°	11388	935	11846
75°	7940	605	8142
80°	4847	301	4847
85°	2395	599	2395



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	61.5	5.5
10°-20°	184.4	16.4
20°-30°	268.3	23.8
30°-40°	254.9	22.6
40°-50°	165.2	14.7
50°-60°	103.6	9.2
60°-70°	62.0	5.5
70°-80°	24.2	2.1
80°-90°	3.3	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°	514.2	45.6
0°-40°	769.1	68.2
0°-60°	1037.9	92.1
0°-90°	1127.3	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1127.3	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	633	633	633	633	633	
5°	633	638	645	642	638	60
15°	612	646	705	651	618	172
25°	535	575	650	578	541	244
35°	386	412	434	413	391	239
45°	220	224	171	224	224	174
55°	151	139	40	140	156	135
65°	91	80	7	82	94	90
75°	32	27	2	28	32	35
85°	3	3	1	3	3	5
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°	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6
2.5°	628.6	624.5	635.8	629.4	630.2	638.3	631.8	629.4	637.5	628.6	632.6
5°	633.4	630.2	641.5	635.8	636.6	644.7	639.0	636.6	645.5	637.5	641.5
7.5°	632.6	630.2	640.7	635.8	636.6	646.3	640.7	639.8	650.3	643.1	648.8
10°	626.2	623.0	634.2	630.2	631.8	642.3	637.5	637.5	649.6	644.7	652.8
12.5°	619.6	616.4	627.7	624.5	626.2	637.5	634.2	635.8	649.6	646.3	656.8
15°	611.7	608.4	620.5	617.3	618.9	630.9	629.4	630.9	646.3	645.5	657.7
17.5°	597.9	596.3	606.8	605.1	606.8	618.9	618.1	620.5	637.5	637.5	652.8
20°	580.2	577.7	589.0	587.4	588.3	600.3	600.3	602.8	620.5	622.1	637.5
22.5°	559.2	557.6	568.9	566.4	568.1	579.3	579.3	581.7	598.7	601.1	617.3
25°	535.0	533.4	543.8	543.0	543.8	555.1	554.3	557.6	573.7	575.3	590.6
27.5°	505.9	503.5	514.0	514.0	514.8	525.3	525.3	526.9	541.4	543.0	557.6
30°	470.4	468.0	477.6	478.5	478.5	489.0	489.0	489.8	503.5	504.3	517.2
32.5°	430.1	430.1	437.3	438.2	438.2	447.8	448.6	448.6	460.7	460.7	471.2
35°	385.7	386.5	392.2	393.0	393.7	402.6	402.6	401.8	412.3	411.5	420.4
37.5°	338.1	338.1	343.7	344.5	344.5	352.6	352.6	351.8	360.7	358.3	364.7
40°	292.1	292.1	297.0	298.5	297.7	304.2	304.2	303.4	309.8	306.6	309.8
42.5°	251.7	253.4	256.6	257.4	256.6	262.3	261.4	260.6	265.5	260.6	261.4
45°	220.3	221.9	224.4	225.1	224.4	228.3	227.6	225.9	228.3	223.5	221.1
47.5°	196.9	197.6	201.7	201.0	200.1	203.3	203.3	200.1	201.0	194.4	189.7
50°	179.1	179.9	183.1	183.1	181.6	184.8	183.1	179.9	179.1	171.8	164.6
52.5°	164.6	165.4	168.6	168.6	167.0	169.5	167.8	163.0	162.2	155.0	146.1
55°	150.9	151.7	155.0	155.0	153.3	155.0	152.5	148.4	146.9	138.8	129.1
57.5°	138.8	138.0	140.4	140.4	138.8	139.6	138.0	133.9	130.7	123.5	113.7
60°	123.5	122.6	124.3	124.3	122.6	123.5	121.8	117.0	115.4	108.1	98.4
62.5°	106.5	106.5	108.1	108.1	106.5	106.5	105.7	100.9	99.2	92.8	84.7
65°	91.2	91.2	92.8	92.8	91.2	92.0	90.3	87.1	85.6	79.9	72.6
67.5°	75.8	75.8	76.7	76.7	75.8	75.8	75.0	72.6	70.2	66.2	59.7
70°	59.7	59.7	60.5	60.5	59.7	59.7	59.7	57.3	56.5	52.4	47.6
72.5°	44.3	44.3	45.2	45.2	45.2	46.0	45.2	43.6	42.0	39.6	35.5
75°	31.5	31.5	31.5	32.3	31.5	31.5	32.3	30.7	29.8	27.4	25.0
77.5°	21.0	21.0	21.0	21.0	21.0	21.8	21.0	21.0	20.2	18.5	17.0
80°	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.1	12.1	10.5
82.5°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	7.3	6.4	5.7
85°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	3.2	2.4
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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	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°	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6
2.5°	631.8	632.6	632.6	635.0	637.5	630.9	634.2	632.6	630.9	637.5	633.4
5°	642.3	643.1	643.1	646.3	649.6	642.3	645.5	644.7	643.1	648.8	644.7
7.5°	650.3	652.8	654.4	658.4	662.4	656.0	660.0	658.4	657.7	663.3	657.7
10°	656.0	660.9	663.3	669.7	675.4	668.9	674.5	673.0	672.2	676.9	670.5
12.5°	662.4	668.9	675.4	682.6	690.7	685.0	692.3	689.9	689.9	693.9	685.8
15°	666.5	674.5	683.5	693.9	703.6	699.6	707.6	705.2	705.2	708.4	699.6
17.5°	662.4	673.0	683.5	695.6	706.9	704.4	713.3	710.9	710.1	713.3	702.8
20°	648.8	660.9	673.0	685.0	698.0	696.3	706.0	702.0	702.8	704.4	693.9
22.5°	627.0	639.8	652.0	664.9	676.9	676.2	685.0	682.6	681.8	684.3	673.0
25°	601.1	612.4	623.7	635.0	647.1	645.5	654.4	650.3	651.1	652.0	642.3
27.5°	566.4	577.0	585.8	595.5	606.8	604.3	613.2	611.7	609.2	610.0	601.9
30°	523.6	532.5	539.0	547.0	555.9	553.6	561.6	560.0	558.3	558.3	553.6
32.5°	475.2	481.7	485.7	491.4	497.8	495.4	501.9	500.3	498.7	498.7	495.4
35°	421.2	425.2	425.2	428.4	433.3	429.3	434.9	434.1	431.6	432.5	431.6
37.5°	362.3	363.9	360.7	360.7	363.9	358.3	363.1	363.1	360.7	361.5	361.5
40°	305.0	304.2	297.7	294.5	294.5	288.9	292.9	292.1	290.5	291.3	292.9
42.5°	254.2	249.3	240.4	234.0	232.3	225.9	228.3	227.6	225.9	227.6	230.0
45°	211.4	202.5	190.4	181.6	177.5	171.0	171.8	171.0	170.3	171.8	175.9
47.5°	177.5	165.4	150.1	138.8	133.1	125.9	125.9	125.0	125.0	129.1	131.5
50°	150.9	136.3	118.6	105.7	97.7	91.2	89.6	88.8	89.6	92.8	97.7
52.5°	130.7	113.0	93.6	79.9	71.0	63.7	62.1	61.3	62.1	65.4	70.2
55°	113.0	94.4	74.3	58.9	49.2	42.8	40.3	40.3	40.3	44.3	49.2
57.5°	96.8	78.3	58.1	42.8	33.9	27.4	25.0	24.2	25.8	28.3	33.0
60°	83.1	65.4	46.0	32.3	23.4	17.7	15.3	15.3	15.3	18.5	23.4
62.5°	71.0	54.9	37.1	24.2	17.0	12.1	9.6	9.6	10.5	12.1	17.0
65°	60.5	46.8	31.5	21.0	13.7	9.6	8.1	7.3	8.1	9.6	13.7
67.5°	50.0	38.7	26.6	17.7	12.1	8.1	7.3	6.4	6.4	8.9	11.3
70°	39.6	30.7	21.8	14.5	9.6	6.4	5.7	4.9	5.7	7.3	9.6
72.5°	29.8	23.4	16.2	11.3	7.3	5.7	4.0	4.0	4.0	5.7	7.3
75°	21.0	17.0	12.1	8.1	4.9	3.2	3.2	2.4	3.2	4.0	4.9
77.5°	13.7	11.3	8.1	4.9	3.2	2.4	1.7	1.7	1.7	2.4	3.2
80°	8.9	7.3	4.9	3.2	2.4	1.7	0.8	0.8	0.8	1.7	1.7
82.5°	4.9	4.0	2.4	1.7	1.7	0.8	0.8	0.8	0.8	0.8	0.8
85°	2.4	1.7	1.7	0.8	0.8	0.8	0.0	0.8	0.8	0.8	0.8
87.5°	0.8	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6	632.6
2.5°	634.2	631.8	635.0	637.5	636.6	634.2	638.3	631.8	634.2	631.8	627.7
5°	645.5	643.1	645.5	647.1	646.3	642.3	645.5	639.8	641.5	638.3	634.2
7.5°	657.7	654.4	655.2	656.0	653.6	647.9	650.3	643.1	643.9	639.8	635.0
10°	668.9	664.1	663.3	661.6	656.8	649.6	650.3	641.5	640.7	635.0	629.4
12.5°	683.5	675.4	672.2	668.9	661.6	652.0	650.3	639.8	638.3	631.8	625.3
15°	693.9	685.0	679.4	673.0	663.3	651.1	647.9	635.8	632.6	625.3	618.9
17.5°	696.3	685.0	676.9	668.9	657.7	643.1	638.3	625.3	621.3	613.2	606.8
20°	685.8	673.7	664.9	654.4	643.1	626.2	621.3	607.6	602.8	595.5	589.0
22.5°	665.6	652.0	643.1	632.6	621.3	605.1	599.5	586.6	581.7	574.5	568.1
25°	636.6	623.7	614.9	605.1	594.7	578.5	573.7	561.6	557.6	550.3	543.8
27.5°	596.3	584.2	579.3	569.6	560.0	546.3	541.4	531.0	526.9	522.1	514.8
30°	547.9	537.4	535.0	526.1	518.9	506.7	502.7	493.8	489.8	485.7	479.3
32.5°	492.2	484.2	484.2	476.9	472.0	462.3	459.1	451.8	448.6	445.4	439.7
35°	429.3	423.7	426.9	422.0	419.6	413.1	410.7	405.0	402.6	400.2	394.6
37.5°	362.3	358.3	364.7	365.5	365.5	359.9	358.3	355.0	353.4	351.0	346.2
40°	296.1	295.3	305.0	306.6	311.5	308.3	309.0	306.6	305.0	303.4	300.2
42.5°	234.8	238.0	250.2	257.4	262.3	262.3	264.7	263.8	263.0	261.4	259.0
45°	182.3	188.8	203.3	212.2	221.9	224.4	228.3	228.3	229.1	228.3	225.9
47.5°	139.6	149.3	166.2	179.9	190.4	195.3	201.0	202.5	203.3	203.3	201.7
50°	105.7	117.8	137.1	152.5	167.0	173.5	179.9	182.3	185.6	184.8	183.1
52.5°	79.9	93.6	114.6	133.1	148.4	155.7	163.0	166.2	169.5	169.5	168.6
55°	58.9	73.4	96.0	115.4	131.5	140.4	147.6	150.9	155.0	155.7	155.0
57.5°	42.8	57.3	79.0	100.1	115.4	125.0	132.3	135.6	139.6	140.4	140.4
60°	31.5	46.0	67.0	86.3	100.9	110.5	116.2	120.3	123.5	125.0	125.0
62.5°	24.2	37.1	56.5	74.3	87.1	95.2	100.9	104.1	107.3	108.1	109.0
65°	20.2	31.5	47.6	63.0	74.3	81.5	86.3	89.6	92.0	92.8	92.8
67.5°	17.0	26.6	39.6	51.7	61.3	67.0	71.0	73.4	75.8	76.7	76.7
70°	13.7	21.0	31.5	41.1	48.4	53.2	56.5	58.9	60.5	60.5	60.5
72.5°	10.5	16.2	23.4	30.7	36.4	40.3	42.8	43.6	45.2	45.2	45.2
75°	7.3	11.3	17.0	21.8	25.0	28.3	29.8	30.7	31.5	32.3	31.5
77.5°	4.9	7.3	10.5	13.7	17.0	18.5	19.4	20.2	21.0	21.0	21.0
80°	3.2	4.9	6.4	8.9	10.5	11.3	12.1	12.1	12.9	12.9	12.9
82.5°	1.7	2.4	4.0	4.9	5.7	6.4	6.4	6.4	7.3	7.3	6.4
85°	0.8	0.8	1.7	2.4	2.4	3.2	3.2	3.2	3.2	3.2	3.2
87.5°	0.0	0.0	0.0	0.8	0.8	0.8	0.8	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	0.0	0.0	0.0





TEST NUMBER: P136486

CATALOG NUMBER: LD6A10D010TE ERW6A10935 6LW121LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	632.6	632.6	632.6	632.6
2.5°	629.4	630.9	624.5	632.6
5°	635.0	636.6	630.2	638.3
7.5°	635.8	636.6	630.2	638.3
10°	630.2	630.2	623.7	631.8
12.5°	625.3	624.5	617.3	625.3
15°	618.1	617.3	610.0	618.1
17.5°	606.0	605.1	597.9	605.1
20°	587.4	586.6	580.2	587.4
22.5°	567.2	565.7	559.2	565.7
25°	543.8	542.3	535.7	541.4
27.5°	514.0	512.3	505.9	511.6
30°	478.5	476.1	471.2	475.2
32.5°	438.2	436.5	430.9	435.7
35°	393.7	391.3	387.3	391.3
37.5°	345.4	343.7	339.7	342.1
40°	298.5	297.7	294.5	296.1
42.5°	258.2	256.6	254.2	255.8
45°	225.9	225.1	222.7	224.4
47.5°	201.7	201.0	198.5	200.1
50°	184.0	183.1	181.6	182.3
52.5°	169.5	168.6	167.0	169.5
55°	156.5	155.7	153.3	155.7
57.5°	142.0	141.2	138.8	142.0
60°	125.9	125.9	123.5	126.7
62.5°	109.7	109.7	108.1	110.5
65°	94.4	93.6	92.8	94.4
67.5°	77.5	76.7	76.7	78.3
70°	61.3	60.5	60.5	62.1
72.5°	46.0	45.2	45.2	46.0
75°	32.3	31.5	31.5	32.3
77.5°	21.0	21.0	21.0	21.0
80°	12.9	12.9	12.9	12.9
82.5°	7.3	7.3	6.4	7.3
85°	3.2	3.2	3.2	3.2
87.5°	0.8	0.8	0.8	0.8
90°	0.0	0.0	0.0	0.0



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















(END OF REPORT)