

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: P136482

Luminaire Tested: **LD6A10D010TE ERW6A10835 6LW121LI**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P136482  
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 ERW6A10835 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: 1228.0 lumens  
Efficiency: N/A  
Efficacy: 87.7 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

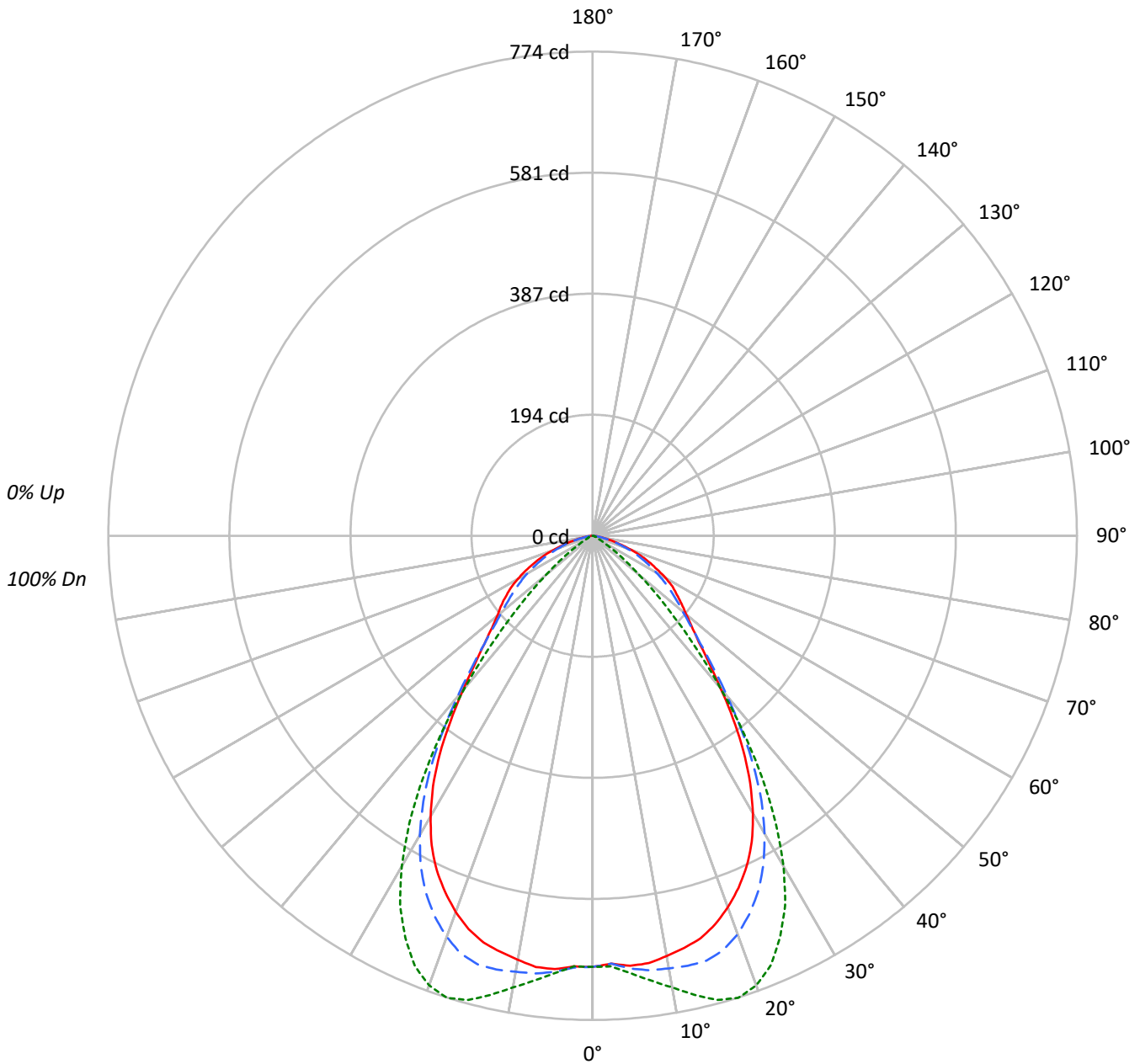
Input Watts (W): 14  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°	44957	44957	44957
5°	45188	45994	45535
10°	45187	48566	45591
15°	45003	51886	45476
20°	43878	53091	44427
25°	41953	50994	42457
30°	38601	45953	39000
35°	33458	37664	33952
40°	27100	27100	27474
45°	22143	17189	22549
50°	19802	9815	20157
55°	18699	4993	19291
60°	17550	2179	18006
65°	15329	1220	15869
70°	12399	1011	12914
75°	8646	655	8873
80°	5297	338	5297
85°	2620	674	2620



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	67.0	5.5
10°-20°	200.9	16.4
20°-30°	292.2	23.8
30°-40°	277.7	22.6
40°-50°	179.9	14.7
50°-60°	112.9	9.2
60°-70°	67.5	5.5
70°-80°	26.3	2.1
80°-90°	3.6	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°	560.1	45.6
0°-40°	837.8	68.2
0°-60°	1130.6	92.1
0°-90°	1228.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	1228.0	100.0

**CANDELA DISTRIBUTION:**

	0°	45°	90°	135°	180°	Flux
0°	689	689	689	689	689	
5°	690	694	702	700	695	66
15°	666	703	768	709	673	187
25°	583	627	708	630	590	266
35°	420	448	473	450	426	260
45°	240	244	186	244	244	189
55°	164	151	44	153	170	147
65°	99	87	8	89	103	98
75°	34	30	3	31	35	38
85°	4	4	1	4	4	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°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	684.7	680.3	692.6	685.6	686.5	695.3	688.2	685.6	694.4	684.7	689.1
5°	690.0	686.5	698.8	692.6	693.5	702.3	696.1	693.5	703.2	694.4	698.8
7.5°	689.1	686.5	697.9	692.6	693.5	704.0	697.9	697.0	708.4	700.5	706.7
10°	682.1	678.6	690.9	686.5	688.2	699.7	694.4	694.4	707.6	702.3	711.1
12.5°	675.0	671.5	683.8	680.3	682.1	694.4	690.9	692.6	707.6	704.0	715.5
15°	666.3	662.7	675.9	672.4	674.2	687.3	685.6	687.3	704.0	703.2	716.4
17.5°	651.3	649.6	661.0	659.2	661.0	674.2	673.3	675.9	694.4	694.4	711.1
20°	632.0	629.3	641.6	639.9	640.8	653.9	653.9	656.6	675.9	677.7	694.4
22.5°	609.1	607.4	619.7	617.0	618.8	631.1	631.1	633.7	652.2	654.8	672.4
25°	582.8	581.0	592.4	591.5	592.4	604.7	603.8	607.4	624.9	626.7	643.4
27.5°	551.1	548.5	559.9	559.9	560.8	572.2	572.2	574.0	589.8	591.5	607.4
30°	512.4	509.8	520.3	521.2	521.2	532.7	532.7	533.5	548.5	549.4	563.4
32.5°	468.5	468.5	476.4	477.3	477.3	487.8	488.7	488.7	501.9	501.9	513.3
35°	420.1	421.0	427.2	428.1	428.9	438.6	438.6	437.7	449.1	448.3	457.9
37.5°	368.3	368.3	374.4	375.3	375.3	384.1	384.1	383.2	392.9	390.3	397.3
40°	318.2	318.2	323.5	325.2	324.3	331.4	331.4	330.5	337.5	334.0	337.5
42.5°	274.2	276.0	279.5	280.4	279.5	285.7	284.8	283.9	289.2	283.9	284.8
45°	240.0	241.7	244.4	245.2	244.4	248.7	247.9	246.1	248.7	243.5	240.8
47.5°	214.5	215.3	219.7	218.9	218.0	221.5	221.5	218.0	218.9	211.8	206.6
50°	195.1	196.0	199.5	199.5	197.8	201.3	199.5	196.0	195.1	187.2	179.3
52.5°	179.3	180.2	183.7	183.7	181.9	184.6	182.8	177.6	176.7	168.8	159.1
55°	164.4	165.2	168.8	168.8	167.0	168.8	166.1	161.7	160.0	151.2	140.6
57.5°	151.2	150.3	152.9	152.9	151.2	152.1	150.3	145.9	142.4	134.5	123.9
60°	134.5	133.6	135.4	135.4	133.6	134.5	132.7	127.4	125.7	117.8	107.2
62.5°	116.0	116.0	117.8	117.8	116.0	116.0	115.1	109.9	108.1	101.1	92.3
65°	99.3	99.3	101.1	101.1	99.3	100.2	98.4	94.9	93.2	87.0	79.1
67.5°	82.6	82.6	83.5	83.5	82.6	82.6	81.7	79.1	76.5	72.1	65.0
70°	65.0	65.0	65.9	65.9	65.0	65.0	65.0	62.4	61.5	57.1	51.9
72.5°	48.3	48.3	49.2	49.2	49.2	50.1	49.2	47.5	45.7	43.1	38.7
75°	34.3	34.3	34.3	35.2	34.3	34.3	35.2	33.4	32.5	29.9	27.2
77.5°	22.9	22.9	22.9	22.9	22.9	23.7	22.9	22.9	22.0	20.2	18.5
80°	14.1	14.1	14.1	14.1	14.1	14.1	14.1	14.1	13.2	13.2	11.4
82.5°	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.9	7.0	6.2
85°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5	2.6
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°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	688.2	689.1	689.1	691.7	694.4	687.3	690.9	689.1	687.3	694.4	690.0
5°	699.7	700.5	700.5	704.0	707.6	699.7	703.2	702.3	700.5	706.7	702.3
7.5°	708.4	711.1	712.8	717.2	721.6	714.6	719.0	717.2	716.4	722.5	716.4
10°	714.6	719.9	722.5	729.5	735.7	728.7	734.8	733.1	732.2	737.4	730.4
12.5°	721.6	728.7	735.7	743.6	752.4	746.2	754.1	751.5	751.5	755.9	747.1
15°	726.0	734.8	744.5	755.9	766.5	762.1	770.8	768.2	768.2	771.7	762.1
17.5°	721.6	733.1	744.5	757.7	770.0	767.3	777.0	774.4	773.5	777.0	765.6
20°	706.7	719.9	733.1	746.2	760.3	758.5	769.1	764.7	765.6	767.3	755.9
22.5°	683.0	697.0	710.2	724.3	737.4	736.6	746.2	743.6	742.7	745.4	733.1
25°	654.8	667.1	679.4	691.7	704.9	703.2	712.8	708.4	709.3	710.2	699.7
27.5°	617.0	628.5	638.1	648.7	661.0	658.3	668.0	666.3	663.6	664.5	655.7
30°	570.4	580.1	587.1	595.9	605.6	603.0	611.8	610.0	608.2	608.2	603.0
32.5°	517.7	524.7	529.1	535.3	542.3	539.7	546.7	545.0	543.2	543.2	539.7
35°	458.8	463.2	463.2	466.7	472.0	467.6	473.8	472.9	470.2	471.1	470.2
37.5°	394.7	396.4	392.9	392.9	396.4	390.3	395.5	395.5	392.9	393.8	393.8
40°	332.2	331.4	324.3	320.8	320.8	314.7	319.1	318.2	316.4	317.3	319.1
42.5°	276.9	271.6	261.9	254.9	253.1	246.1	248.7	247.9	246.1	247.9	250.5
45°	230.3	220.6	207.4	197.8	193.4	186.3	187.2	186.3	185.5	187.2	191.6
47.5°	193.4	180.2	163.5	151.2	145.0	137.1	137.1	136.2	136.2	140.6	143.3
50°	164.4	148.5	129.2	115.1	106.4	99.3	97.6	96.7	97.6	101.1	106.4
52.5°	142.4	123.1	102.0	87.0	77.3	69.4	67.7	66.8	67.7	71.2	76.5
55°	123.1	102.8	80.9	64.2	53.6	46.6	43.9	43.9	43.9	48.3	53.6
57.5°	105.5	85.3	63.3	46.6	36.9	29.9	27.2	26.4	28.1	30.8	36.0
60°	90.5	71.2	50.1	35.2	25.5	19.3	16.7	16.7	16.7	20.2	25.5
62.5°	77.3	59.8	40.4	26.4	18.5	13.2	10.5	10.5	11.4	13.2	18.5
65°	65.9	51.0	34.3	22.9	14.9	10.5	8.8	7.9	8.8	10.5	14.9
67.5°	54.5	42.2	29.0	19.3	13.2	8.8	7.9	7.0	7.0	9.7	12.3
70°	43.1	33.4	23.7	15.8	10.5	7.0	6.2	5.3	6.2	7.9	10.5
72.5°	32.5	25.5	17.6	12.3	7.9	6.2	4.4	4.4	4.4	6.2	7.9
75°	22.9	18.5	13.2	8.8	5.3	3.5	3.5	2.6	3.5	4.4	5.3
77.5°	14.9	12.3	8.8	5.3	3.5	2.6	1.8	1.8	1.8	2.6	3.5
80°	9.7	7.9	5.3	3.5	2.6	1.8	0.9	0.9	0.9	1.8	1.8
82.5°	5.3	4.4	2.6	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
85°	2.6	1.8	1.8	0.9	0.9	0.9	0.0	0.9	0.9	0.9	0.9
87.5°	0.9	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°	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1	689.1
2.5°	690.9	688.2	691.7	694.4	693.5	690.9	695.3	688.2	690.9	688.2	683.8
5°	703.2	700.5	703.2	704.9	704.0	699.7	703.2	697.0	698.8	695.3	690.9
7.5°	716.4	712.8	713.7	714.6	712.0	705.8	708.4	700.5	701.4	697.0	691.7
10°	728.7	723.4	722.5	720.7	715.5	707.6	708.4	698.8	697.9	691.7	685.6
12.5°	744.5	735.7	732.2	728.7	720.7	710.2	708.4	697.0	695.3	688.2	681.2
15°	755.9	746.2	740.1	733.1	722.5	709.3	705.8	692.6	689.1	681.2	674.2
17.5°	758.5	746.2	737.4	728.7	716.4	700.5	695.3	681.2	676.8	668.0	661.0
20°	747.1	733.9	724.3	712.8	700.5	682.1	676.8	661.9	656.6	648.7	641.6
22.5°	725.1	710.2	700.5	689.1	676.8	659.2	653.1	639.0	633.7	625.8	618.8
25°	693.5	679.4	669.8	659.2	647.8	630.2	624.9	611.8	607.4	599.5	592.4
27.5°	649.6	636.4	631.1	620.5	610.0	595.1	589.8	578.4	574.0	568.7	560.8
30°	596.8	585.4	582.8	573.1	565.2	552.0	547.6	537.9	533.5	529.1	522.1
32.5°	536.2	527.4	527.4	519.5	514.2	503.6	500.1	492.2	488.7	485.2	479.0
35°	467.6	461.5	465.0	459.7	457.1	450.0	447.4	441.2	438.6	436.0	429.8
37.5°	394.7	390.3	397.3	398.2	398.2	392.0	390.3	386.7	385.0	382.3	377.1
40°	322.6	321.7	332.2	334.0	339.3	335.8	336.6	334.0	332.2	330.5	327.0
42.5°	255.8	259.3	272.5	280.4	285.7	285.7	288.3	287.4	286.5	284.8	282.1
45°	198.6	205.7	221.5	231.2	241.7	244.4	248.7	248.7	249.6	248.7	246.1
47.5°	152.1	162.6	181.1	196.0	207.4	212.7	218.9	220.6	221.5	221.5	219.7
50°	115.1	128.3	149.4	166.1	181.9	189.0	196.0	198.6	202.2	201.3	199.5
52.5°	87.0	102.0	124.8	145.0	161.7	169.6	177.6	181.1	184.6	184.6	183.7
55°	64.2	80.0	104.6	125.7	143.3	152.9	160.8	164.4	168.8	169.6	168.8
57.5°	46.6	62.4	86.1	109.0	125.7	136.2	144.1	147.7	152.1	152.9	152.9
60°	34.3	50.1	73.0	94.0	109.9	120.4	126.6	131.0	134.5	136.2	136.2
62.5°	26.4	40.4	61.5	80.9	94.9	103.7	109.9	113.4	116.9	117.8	118.7
65°	22.0	34.3	51.9	68.6	80.9	88.8	94.0	97.6	100.2	101.1	101.1
67.5°	18.5	29.0	43.1	56.3	66.8	73.0	77.3	80.0	82.6	83.5	83.5
70°	14.9	22.9	34.3	44.8	52.7	58.0	61.5	64.2	65.9	65.9	65.9
72.5°	11.4	17.6	25.5	33.4	39.6	43.9	46.6	47.5	49.2	49.2	49.2
75°	7.9	12.3	18.5	23.7	27.2	30.8	32.5	33.4	34.3	35.2	34.3
77.5°	5.3	7.9	11.4	14.9	18.5	20.2	21.1	22.0	22.9	22.9	22.9
80°	3.5	5.3	7.0	9.7	11.4	12.3	13.2	13.2	14.1	14.1	14.1
82.5°	1.8	2.6	4.4	5.3	6.2	7.0	7.0	7.0	7.9	7.9	7.0
85°	0.9	0.9	1.8	2.6	2.6	3.5	3.5	3.5	3.5	3.5	3.5
87.5°	0.0	0.0	0.0	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





TEST NUMBER: P136482

CATALOG NUMBER: LD6A10D010TE ERW6A10835 6LW121LI

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	689.1	689.1	689.1	689.1
2.5°	685.6	687.3	680.3	689.1
5°	691.7	693.5	686.5	695.3
7.5°	692.6	693.5	686.5	695.3
10°	686.5	686.5	679.4	688.2
12.5°	681.2	680.3	672.4	681.2
15°	673.3	672.4	664.5	673.3
17.5°	660.1	659.2	651.3	659.2
20°	639.9	639.0	632.0	639.9
22.5°	617.9	616.2	609.1	616.2
25°	592.4	590.7	583.6	589.8
27.5°	559.9	558.1	551.1	557.3
30°	521.2	518.6	513.3	517.7
32.5°	477.3	475.5	469.4	474.6
35°	428.9	426.3	421.9	426.3
37.5°	376.2	374.4	370.0	372.7
40°	325.2	324.3	320.8	322.6
42.5°	281.3	279.5	276.9	278.6
45°	246.1	245.2	242.6	244.4
47.5°	219.7	218.9	216.2	218.0
50°	200.4	199.5	197.8	198.6
52.5°	184.6	183.7	181.9	184.6
55°	170.5	169.6	167.0	169.6
57.5°	154.7	153.8	151.2	154.7
60°	137.1	137.1	134.5	138.0
62.5°	119.5	119.5	117.8	120.4
65°	102.8	102.0	101.1	102.8
67.5°	84.4	83.5	83.5	85.3
70°	66.8	65.9	65.9	67.7
72.5°	50.1	49.2	49.2	50.1
75°	35.2	34.3	34.3	35.2
77.5°	22.9	22.9	22.9	22.9
80°	14.1	14.1	14.1	14.1
82.5°	7.9	7.9	7.0	7.9
85°	3.5	3.5	3.5	3.5
87.5°	0.9	0.9	0.9	0.9
90°	0.0	0.0	0.0	0.0



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















(END OF REPORT)