

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: H26067

Luminaire Tested: **RCS-12-32CT**

Issue Date: 3/3/2020



Test Information

Test Method: LM-79-08
Report Number: H26067
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: RCS-12-32CT
Description: FAIL-SAFE RCS-12-32CT SURFACE FIXTURE WITH COMPASS TRIM
Light Source: F32PLT 32W 2400 LUMENS
HEX TUBE COMPACT FLUORESCENT LAMP
Ballast/Driver: -

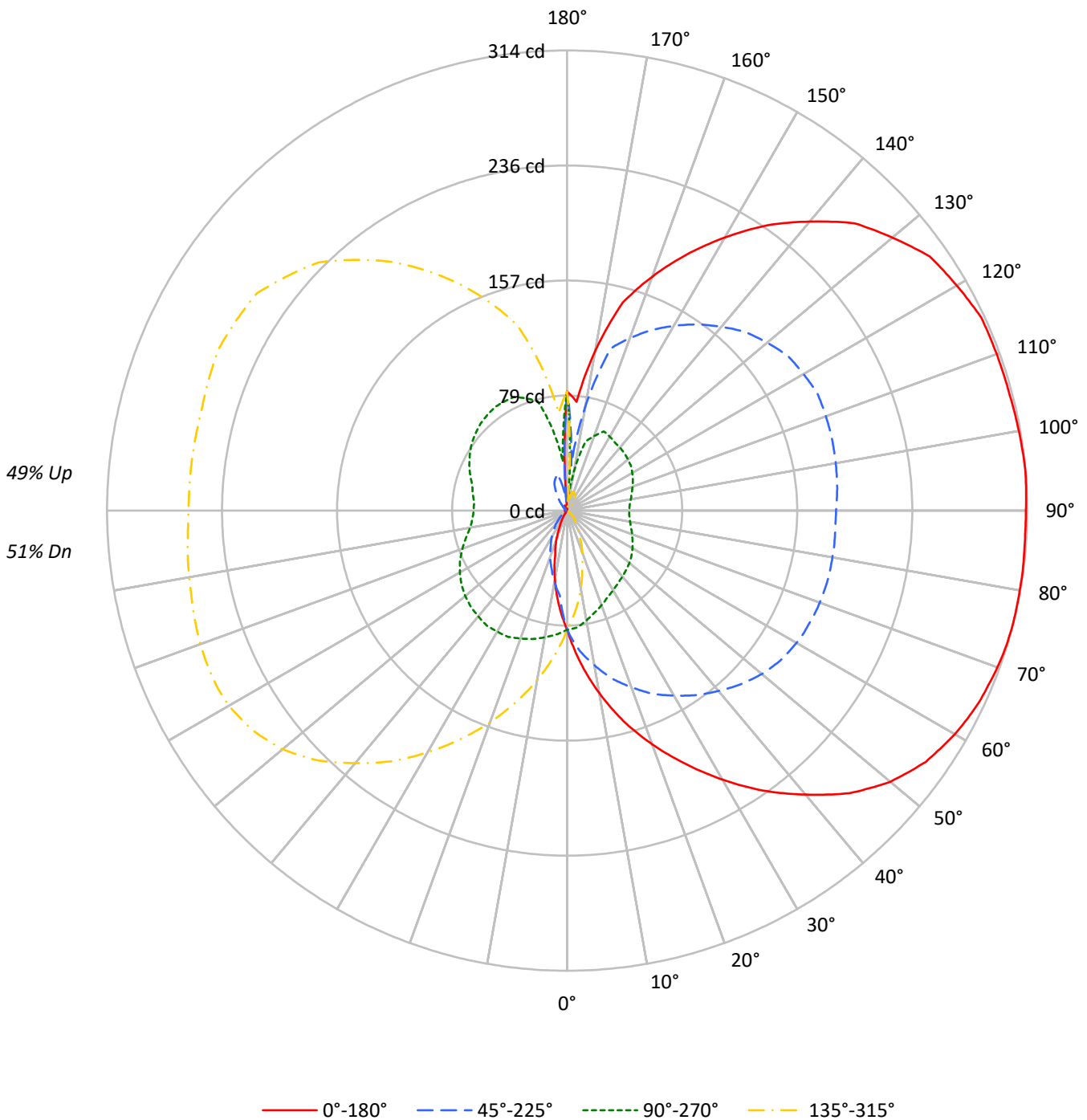
Summary

Lumens per Lamp: 2400 (1 lamp)
Luminaire Lumens: 1307.0 lumens
Efficiency: 54.5%
Efficacy: 36.3 lumens/watt
Spacing Criteria (0/90/45): 2.29 / 1.47 / 2.07
Luminous Opening: Point Source (0' x 0' x 0')
CIE Type: General Diffuse

Input Watts (W): 36
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





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	0
RCR																		
0	58	58	58	58	54	54	54	54	46	46	46	38	38	38	31	31	31	28
1	51	47	44	42	47	44	41	38	36	34	32	30	28	27	23	22	21	18
2	45	40	36	32	41	37	33	30	30	27	25	25	22	20	19	18	16	13
3	41	34	30	26	37	32	27	24	26	23	20	21	18	16	16	14	13	10
4	37	30	25	21	34	27	23	19	23	19	16	18	15	13	14	12	10	8
5	34	26	21	18	31	24	20	16	20	16	14	16	13	11	12	10	9	7
6	31	23	18	15	28	22	17	14	18	14	12	14	12	9	11	9	7	6
7	28	21	16	13	26	19	15	12	16	12	10	13	10	8	10	8	6	5
8	26	19	14	11	24	17	13	10	14	11	9	12	9	7	9	7	5	4
9	24	17	13	10	22	16	12	9	13	10	8	11	8	6	8	6	5	4
10	23	16	11	9	21	14	11	8	12	9	7	10	7	5	8	6	4	3

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	Luminaire represents a point source (luminous area is zero).			
5°	No luminance values can be calculated.			
10°				
15°				
20°				
25°				
30°				
35°				
40°				
45°				
50°				
55°				
60°				
65°				
70°				
75°				
80°				
85°				



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ZONAL LUMENS:

CANDELA DISTRIBUTION:

Zone	Lumens	% Fixture	% Lamp		0°	90°	180°	270°	360°	Flux
0°-10°	7.9	0.6	0.3	0°	81	81	81	81	81	
10°-20°	24.2	1.9	1.0	5°	104	80	64	85	104	10
20°-30°	41.9	3.2	1.7	15°	149	72	32	91	149	42
30°-40°	61.4	4.7	2.6	25°	191	65	12	95	191	88
40°-50°	81.5	6.2	3.4	35°	233	60	2	96	233	146
50°-60°	99.3	7.6	4.1	45°	273	57	1	93	273	209
60°-70°	110.8	8.5	4.6	55°	299	54	1	88	299	267
70°-80°	116.7	8.9	4.9	65°	310	49	1	81	310	307
80°-90°	118.5	9.1	4.9	75°	314	45	1	71	314	332
90°-100°	118.4	9.1	4.9	85°	313	43	2	65	313	256
100°-110°	115.9	8.9	4.8	90°	313	42	2	64	313	172
110°-120°	109.7	8.4	4.6	95°	314	43	1	64	314	256
120°-130°	97.9	7.5	4.1	105°	312	46	1	67	312	331
130°-140°	80.3	6.1	3.3	115°	312	50	1	74	312	307
140°-150°	59.7	4.6	2.5	125°	302	53	1	80	302	268
150°-160°	38.8	3.0	1.6	135°	277	55	1	84	277	212
160°-170°	17.9	1.4	0.7	145°	238	57	1	86	238	148
170°-180°	6.2	0.5	0.3	155°	193	60	4	86	193	89
0°-30°	74.0	5.7	3.1	165°	147	49	2	77	147	40
0°-40°	135.4	10.4	5.6	175°	74	7	0	33	74	9
0°-60°	316.2	24.2	13.2	180°	81	81	81	81	81	
0°-90°	662.2	50.7	27.6							
90°-120°	344.0	26.3	14.3							
90°-150°	581.9	44.5	24.2							
90°-180°	645.0	49.3	26.9							
0°-180°	1307.0	100.0	54.5							



TEST NUMBER: H26067
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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
5°	104.1	103.6	102.6	100.9	98.4	95.7	92.6	89.1	85.5	82.0	80.0
15°	148.8	146.5	142.6	136.1	128.0	118.7	108.7	98.1	87.5	77.2	72.1
25°	190.6	187.6	179.5	167.3	153.3	137.9	121.3	104.6	88.3	72.7	65.2
35°	233.3	228.7	215.3	196.3	176.1	153.7	131.6	109.8	89.0	69.6	60.4
45°	272.7	266.5	248.3	223.0	196.3	167.6	140.6	114.0	89.2	67.5	57.0
50°	287.9	281.2	261.3	233.9	204.3	173.5	144.1	115.2	89.0	66.1	55.5
55°	298.8	291.9	270.9	242.0	210.4	178.0	146.7	116.0	88.3	64.6	53.6
60°	305.4	298.2	276.8	247.1	214.5	180.7	148.1	116.4	87.5	63.2	51.5
62.5°	307.8	300.7	278.9	248.9	215.7	181.7	148.4	116.4	87.3	62.5	50.4
65°	310.0	302.8	280.7	250.4	216.7	182.3	148.4	115.9	87.1	61.6	49.3
67.5°	311.2	304.2	282.1	251.9	217.8	183.0	148.4	115.5	86.8	60.7	48.2
70°	312.5	305.3	283.6	252.9	218.6	183.5	148.5	115.2	86.8	59.9	47.1
72.5°	313.4	306.3	284.3	253.6	219.3	183.8	148.4	115.0	86.6	59.1	46.2
75°	313.9	306.8	284.8	254.0	219.6	184.0	148.2	114.7	86.3	58.4	45.2
77.5°	313.9	306.7	284.8	254.2	219.6	184.0	147.7	114.5	86.3	57.5	44.3
80°	313.6	306.7	284.6	254.2	219.6	183.8	147.3	114.2	86.3	57.0	43.6
82.5°	313.6	306.4	284.5	254.1	219.6	183.8	147.0	114.0	86.3	56.5	43.1
85°	313.1	306.0	284.0	253.7	219.2	183.5	146.7	114.0	86.3	56.0	42.6
87.5°	313.0	305.9	283.6	253.5	219.1	183.3	146.3	113.9	86.3	55.8	42.3
90°	313.1	306.0	283.8	253.7	219.1	183.5	146.7	114.2	86.4	55.8	42.3
95°	313.9	306.7	285.0	254.8	220.3	185.0	148.2	115.2	87.3	56.3	42.8
105°	312.1	305.8	284.8	255.4	222.0	187.2	151.5	117.9	89.0	59.4	45.5
115°	311.8	305.6	284.8	255.6	222.5	188.6	153.7	119.8	90.1	62.5	49.5
125°	302.2	296.1	276.1	248.1	217.0	184.0	151.6	119.3	90.0	64.7	53.1
135°	277.3	272.1	253.9	229.4	201.9	172.3	143.5	114.8	88.7	65.7	55.3
145°	237.6	233.1	219.4	200.5	178.9	155.1	131.4	108.0	86.1	65.9	56.8
155°	192.7	189.8	180.8	167.9	152.9	135.8	118.3	100.5	83.5	67.3	59.6
165°	147.0	145.5	140.5	133.2	124.8	114.5	103.7	89.0	73.4	56.8	48.8
175°	74.4	73.0	65.9	51.5	39.9	30.8	22.3	15.9	11.7	8.2	7.0
180°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4



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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
5°	78.3	75.1	72.4	69.9	67.8	66.4	64.8	64.7	64.3	64.5	64.5
15°	67.5	58.7	51.0	44.5	39.7	35.4	33.2	31.5	31.5	31.6	31.5
25°	58.1	45.6	34.9	26.6	21.0	16.4	13.6	12.0	11.5	11.6	12.0
35°	52.0	37.0	25.0	16.8	10.6	6.6	4.1	2.8	2.4	2.4	2.5
45°	47.6	31.7	19.6	10.9	5.3	2.3	1.0	0.8	0.8	0.9	0.9
50°	45.6	29.0	16.9	8.4	3.4	1.2	0.8	0.8	0.8	0.9	0.9
55°	43.3	26.2	14.3	6.4	2.2	0.9	0.8	0.8	0.8	0.9	0.9
60°	40.8	23.9	11.8	4.7	1.4	0.9	0.8	0.8	0.8	0.9	0.9
62.5°	39.3	22.5	10.8	4.1	1.2	0.9	0.8	0.8	0.8	0.9	0.9
65°	38.0	21.3	9.8	3.5	1.0	0.9	0.8	0.8	0.9	0.9	0.9
67.5°	37.0	20.2	9.0	3.0	1.0	0.9	0.8	0.8	0.9	0.9	1.0
70°	35.8	19.1	8.2	2.6	1.0	0.9	0.8	0.8	0.9	0.9	1.0
72.5°	34.8	18.3	7.6	2.4	1.0	0.9	0.8	0.9	0.9	1.0	1.1
75°	33.8	17.5	7.0	2.2	1.0	0.9	0.9	0.9	1.0	1.1	1.3
77.5°	33.0	16.9	6.6	2.0	1.0	0.9	0.9	0.9	1.1	1.3	1.4
80°	32.2	16.4	6.2	1.8	1.0	0.9	0.9	0.9	1.3	1.5	1.6
82.5°	31.7	15.9	5.9	1.7	1.0	0.9	0.9	1.0	1.4	1.6	1.6
85°	31.3	15.5	5.7	1.6	1.0	0.9	0.9	1.2	1.6	1.7	1.6
87.5°	31.1	15.3	5.6	1.6	1.0	0.9	1.0	1.3	1.7	1.7	1.5
90°	31.0	15.2	5.5	1.5	1.0	0.9	1.1	1.5	1.7	1.5	1.4
95°	31.5	15.4	5.6	1.5	1.0	1.0	1.2	1.5	1.4	1.3	1.2
105°	33.7	17.1	6.6	1.9	1.0	1.1	1.1	1.1	1.0	1.0	0.9
115°	37.8	20.3	8.8	3.0	1.1	1.0	0.9	0.9	0.9	0.8	0.8
125°	42.0	24.8	12.4	5.1	1.6	1.0	0.9	0.9	0.9	0.9	0.9
135°	45.5	29.5	17.2	8.8	3.8	1.4	0.9	0.8	0.9	0.9	0.9
145°	48.1	33.5	22.0	13.5	7.7	4.2	2.2	1.1	0.8	0.8	0.9
155°	52.2	39.5	28.6	19.5	12.5	8.5	6.1	4.3	3.8	3.9	4.3
165°	41.9	31.7	24.6	19.3	13.4	8.5	5.3	3.0	1.9	1.8	2.2
175°	5.9	4.4	3.2	2.4	1.8	1.3	0.9	0.6	0.4	0.4	0.4
180°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4



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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
5°	63.1	61.0	59.6	58.1	63.7	74.3	77.9	82.7	84.9	87.2	90.6
15°	32.0	33.0	35.2	41.0	51.5	62.9	73.7	84.9	90.7	96.7	107.7
25°	12.6	14.9	19.3	26.5	37.9	51.5	67.5	85.1	95.1	105.2	124.3
35°	3.1	4.8	8.4	15.5	25.9	40.4	59.5	82.3	95.7	109.6	136.8
45°	0.9	1.1	2.5	7.4	16.8	30.4	50.7	76.6	92.9	110.6	146.0
50°	0.9	0.9	1.3	4.6	13.0	26.0	46.4	73.4	90.7	109.9	148.6
55°	0.9	0.9	1.0	2.7	9.8	22.6	42.1	69.6	88.0	108.2	149.6
60°	0.9	0.9	1.0	1.5	7.3	19.1	37.8	65.7	84.5	105.5	149.1
62.5°	0.9	1.0	1.0	1.2	6.3	17.6	36.1	63.6	82.6	103.8	148.1
65°	1.0	1.0	1.0	1.0	5.4	16.1	34.2	61.6	80.6	101.9	146.4
67.5°	1.1	1.0	1.0	1.0	4.6	14.9	32.3	59.5	78.3	99.7	144.7
70°	1.2	1.1	1.1	1.0	3.9	13.7	30.5	57.5	76.0	97.2	142.2
72.5°	1.3	1.1	1.1	1.0	3.3	12.6	29.1	55.4	73.8	94.9	139.5
75°	1.3	1.1	1.0	0.9	2.9	11.7	27.8	53.4	71.4	92.2	136.9
77.5°	1.4	1.1	1.0	0.9	2.5	10.8	26.6	51.7	69.2	89.6	134.5
80°	1.3	1.1	1.0	0.9	2.2	10.2	25.4	50.1	67.2	87.5	132.6
82.5°	1.3	1.0	0.9	0.8	1.9	9.6	24.6	48.8	65.9	85.9	131.2
85°	1.3	1.0	0.9	0.8	1.8	9.2	24.1	48.1	64.9	84.8	130.1
87.5°	1.2	1.0	0.9	0.8	1.6	9.0	24.2	47.9	64.2	84.1	129.2
90°	1.1	0.9	0.8	0.7	1.5	8.9	24.1	47.6	63.8	83.5	128.4
95°	1.0	0.9	0.8	0.7	1.4	8.7	23.8	47.3	63.7	83.5	128.4
105°	0.9	0.8	0.8	0.8	2.0	9.9	25.4	49.7	67.0	87.5	132.0
115°	0.8	0.8	0.8	0.8	3.5	13.0	29.8	55.7	73.7	95.0	139.3
125°	0.9	0.9	0.9	1.2	6.4	17.8	36.0	62.0	79.6	100.1	142.1
135°	0.9	1.0	1.2	4.1	11.6	24.3	42.8	67.8	83.7	101.6	138.2
145°	1.3	2.2	4.9	10.4	19.3	32.4	50.0	72.5	86.1	100.5	129.3
155°	6.1	9.3	14.0	20.7	30.0	42.1	57.3	75.5	85.6	96.3	116.9
165°	5.1	10.4	17.4	25.9	36.2	47.4	59.4	71.0	77.2	83.9	97.0
175°	0.6	1.4	3.1	6.1	10.8	16.1	22.5	29.8	33.4	37.5	45.0
180°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4



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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4
5°	93.8	96.4	99.2	101.0	102.7	103.7	104.2	104.1
15°	118.2	127.6	135.4	142.1	147.0	149.7	149.4	148.8
25°	142.6	158.7	172.0	182.7	189.6	192.8	192.4	190.6
35°	164.0	188.5	208.8	223.4	234.2	238.0	236.4	233.3
45°	181.8	214.1	241.1	261.4	273.8	279.2	276.8	272.7
50°	188.2	223.9	253.5	275.7	289.0	295.1	292.7	287.9
55°	192.3	230.1	261.8	286.0	300.0	306.4	303.5	298.8
60°	193.9	233.2	266.4	291.9	306.5	313.1	310.3	305.4
62.5°	193.5	233.5	267.4	293.3	308.5	315.6	312.9	307.8
65°	192.2	232.9	267.4	294.4	310.0	317.4	314.8	310.0
67.5°	190.6	231.7	267.0	294.9	311.0	318.7	316.3	311.2
70°	188.3	230.2	266.3	294.7	311.5	319.6	317.2	312.5
72.5°	186.3	228.8	265.3	294.5	311.6	320.1	318.2	313.4
75°	184.1	226.9	264.1	294.0	311.5	320.4	318.7	313.9
77.5°	182.1	225.2	262.8	293.2	311.2	320.4	318.7	313.9
80°	180.2	223.5	261.9	292.6	310.7	320.1	318.7	313.6
82.5°	178.9	222.3	261.1	292.0	310.3	319.8	318.4	313.6
85°	178.0	221.3	259.9	291.1	309.6	319.2	318.0	313.1
87.5°	177.0	220.1	259.0	290.3	308.8	318.7	317.5	313.0
90°	176.1	219.3	258.3	289.6	308.8	318.6	317.5	313.1
95°	176.1	219.3	258.3	289.6	308.8	318.9	318.2	313.9
105°	178.5	221.3	258.6	289.0	307.4	316.8	316.3	312.1
115°	185.0	226.4	262.2	290.5	307.8	316.5	316.0	311.8
125°	185.9	225.4	258.5	283.7	299.3	306.8	306.4	302.2
135°	176.1	210.7	239.6	260.6	274.9	281.2	280.8	277.3
145°	158.3	184.8	207.0	223.7	234.8	240.8	240.3	237.6
155°	137.1	154.6	169.6	181.9	190.0	194.6	194.8	192.7
165°	109.4	120.5	130.4	138.7	144.2	147.7	148.0	147.0
175°	52.9	60.2	66.7	71.7	76.7	78.6	77.0	74.4
180°	81.4	81.4	81.4	81.4	81.4	81.4	81.4	81.4

(END OF REPORT)