

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: H26065

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

Issue Date: 3/3/2020



**Test Information**

Test Method: LM-79-08  
Report Number: H26065  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: FAIL-SAFE  
Catalog Number: RPS-12-32CT  
Description: FAIL-SAFE RPS-12 WITH PALLADIN TRIM  
Light Source: F32PLT 32W 2400 LUMENS  
HEX TUBE COMPACT FLUORESCENT  
Ballast/Driver: -

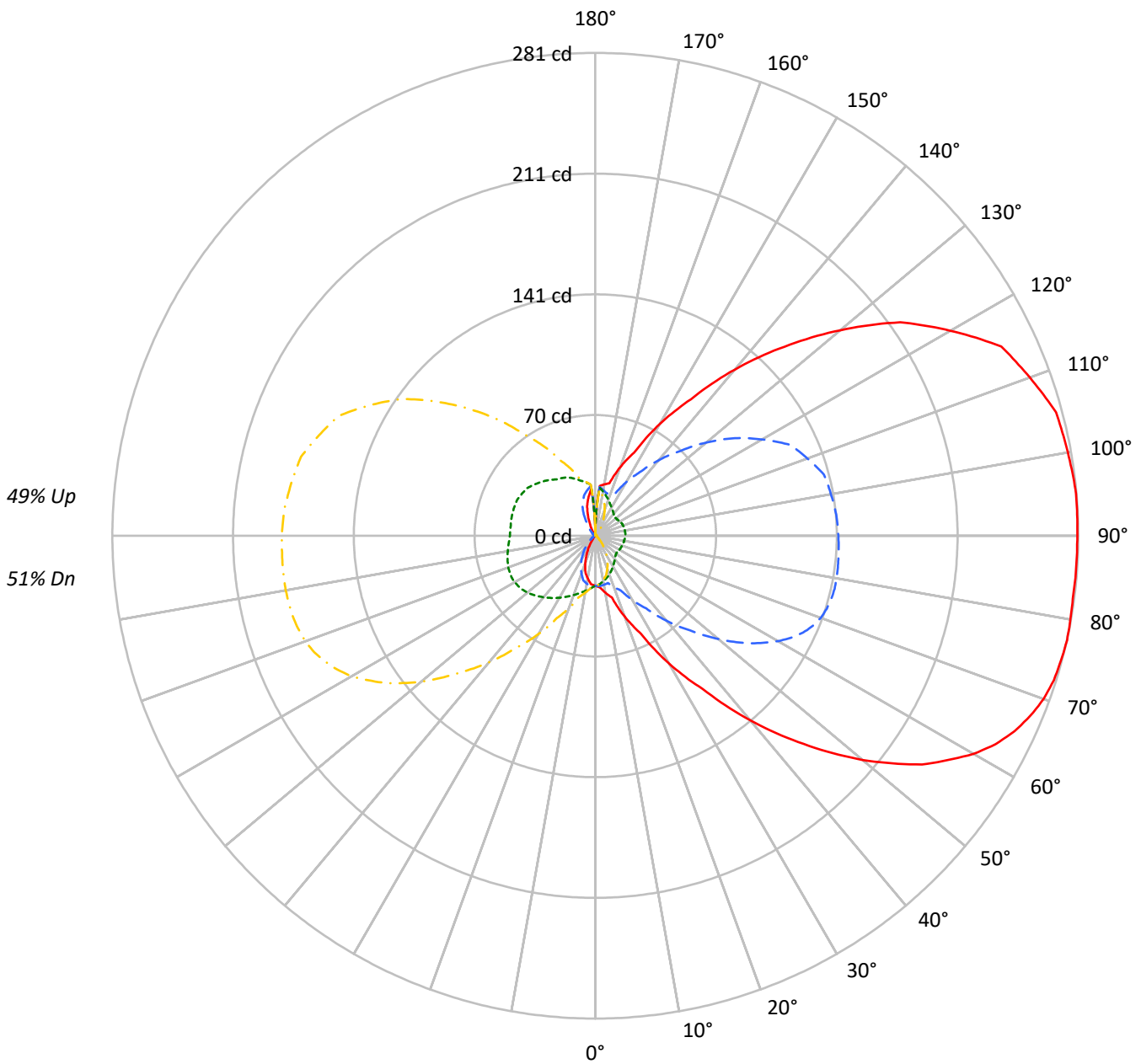
**Summary**

Lumens per Lamp: 2400 (1 lamp)  
Luminaire Lumens: 816.8 lumens  
Efficiency: 34.0%  
Efficacy: 22.7 lumens/watt  
Spacing Criteria (0/90/45): 3.62 / 1.67 / 2.75  
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



— 0°-180°    - - 45°-225°    - - - 90°-270°    - . - . 135°-315°



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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	50	30	10	50	30	10	50	30	10	0																			
RCR																																														
0	37	37	37	37	34	34	34	34	29	29	29	24	24	24	20	20	20	20	20	20	20	20	20	20	20	20	18																			
1	31	29	27	25	29	27	25	23	22	21	19	18	17	16	14	13	13	14	13	13	14	13	13	14	13	13	11																			
2	28	24	21	19	25	22	20	17	18	16	14	15	13	12	11	10	9	11	10	9	11	10	9	11	10	7																				
3	25	21	17	15	23	19	16	14	15	13	11	12	11	9	9	8	7	9	8	7	9	8	7	9	8	5																				
4	22	18	15	12	20	16	13	11	13	11	9	11	9	7	8	7	5	11	9	7	8	7	5	8	7	4																				
5	20	16	12	10	19	14	11	9	12	9	7	9	7	6	7	6	4	9	7	6	7	6	4	7	6	3																				
6	19	14	11	8	17	13	10	8	10	8	6	8	6	5	6	5	4	8	6	5	6	5	4	6	5	3																				
7	17	12	9	7	16	11	9	7	9	7	5	7	6	4	6	4	3	7	6	4	6	4	3	6	4	2																				
8	16	11	8	6	14	10	7	6	8	6	5	7	5	4	5	4	3	7	5	4	5	4	3	5	4	2																				
9	15	10	7	5	13	9	7	5	8	6	4	6	4	3	5	3	2	8	6	4	5	3	2	5	3	2																				
10	14	9	6	5	13	8	6	4	7	5	4	6	4	3	4	3	2	7	5	4	4	3	2	4	3	1																				

**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°	2.8	0.3	0.1	0°	29	29	29	29	29	
10°-20°	8.6	1.0	0.4	5°	30	28	28	31	30	3
20°-30°	15.6	1.9	0.7	15°	37	25	22	34	37	12
30°-40°	26.5	3.2	1.1	25°	63	22	12	39	63	31
40°-50°	42.8	5.2	1.8	35°	109	19	3	44	109	71
50°-60°	62.9	7.7	2.6	45°	171	16	1	49	171	133
60°-70°	80.0	9.8	3.3	55°	232	16	0	53	232	207
70°-80°	89.2	10.9	3.7	65°	269	16	0	54	269	266
80°-90°	92.0	11.3	3.8	75°	280	17	0	53	280	296
90°-100°	91.5	11.2	3.8	85°	280	17	0	51	280	229
100°-110°	86.5	10.6	3.6	90°	280	18	0	50	280	154
110°-120°	75.2	9.2	3.1	95°	281	18	0	50	281	229
120°-130°	57.8	7.1	2.4	105°	278	17	0	50	278	290
130°-140°	38.8	4.7	1.6	115°	261	17	0	50	261	252
140°-150°	23.4	2.9	1.0	125°	217	16	0	48	217	191
150°-160°	13.7	1.7	0.6	135°	156	16	1	44	156	121
160°-170°	7.8	1.0	0.3	145°	97	18	1	40	97	63
170°-180°	1.3	0.2	0.1	155°	53	20	7	38	53	27
0°-30°	27.0	3.3	1.1	165°	32	24	18	33	32	10
0°-40°	53.4	6.5	2.2	175°	29	28	27	30	29	1
0°-60°	159.1	19.5	6.6	180°	0	0	0	0	0	
0°-90°	420.3	51.5	17.5							
90°-120°	253.2	31.0	10.5							
90°-150°	373.1	45.7	15.5							
90°-180°	396.0	48.5	16.5							
0°-180°	816.8	100.0	34.0							



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
5°	30.1	30.0	29.8	29.7	29.6	29.4	29.2	28.9	28.7	28.4	28.3
15°	37.2	36.6	35.0	32.9	30.6	28.5	27.0	26.0	25.5	25.4	25.4
25°	63.1	61.4	56.6	49.8	42.3	35.1	29.2	25.0	22.6	22.2	22.2
35°	108.8	106.2	96.9	82.8	66.9	51.6	38.8	28.4	22.5	19.8	19.0
45°	171.4	167.6	152.6	129.0	103.0	77.9	54.6	36.0	24.6	18.5	16.5
50°	203.0	199.2	182.2	154.5	123.9	93.6	64.1	40.6	26.4	18.5	15.9
55°	232.1	228.2	209.5	178.3	144.6	109.1	73.9	45.7	28.4	18.9	15.9
60°	254.0	251.1	230.8	198.3	161.9	122.7	82.7	50.3	30.7	19.5	16.2
62.5°	262.6	258.9	239.1	206.4	169.1	128.5	86.9	52.8	31.8	19.8	16.3
65°	269.1	266.0	245.8	212.6	175.0	133.4	89.8	54.8	32.8	20.0	16.4
67.5°	273.9	270.6	250.9	216.9	179.6	137.0	92.5	56.8	33.9	20.2	16.5
70°	277.6	273.9	254.6	220.9	182.9	139.6	94.2	58.3	34.8	20.3	16.5
72.5°	279.7	276.4	257.2	223.6	185.0	141.2	95.5	59.4	35.6	20.4	16.6
75°	280.5	277.4	258.6	225.2	186.4	142.1	96.1	60.4	36.2	20.5	16.7
77.5°	281.1	277.8	259.1	225.8	187.3	142.6	96.4	61.1	36.8	20.4	16.9
80°	280.7	277.6	259.1	226.3	187.1	142.5	96.2	61.3	37.1	20.4	17.0
82.5°	280.2	277.2	258.7	226.3	186.9	142.3	96.1	61.6	37.4	20.3	17.1
85°	280.4	276.9	258.6	226.0	186.8	142.0	96.0	61.6	37.5	20.1	17.3
87.5°	280.4	277.0	258.6	226.1	186.5	141.7	95.7	61.6	37.6	20.0	17.4
90°	280.4	277.0	258.4	226.0	186.4	141.4	95.3	61.6	37.6	20.0	17.5
95°	280.8	277.4	259.1	226.2	186.0	140.7	94.8	61.1	37.4	20.1	17.5
105°	277.5	274.2	255.5	222.0	182.7	137.7	92.2	58.3	35.8	20.7	17.4
115°	260.6	257.2	237.5	204.8	167.2	125.1	83.1	51.1	31.7	20.3	17.0
125°	216.6	213.0	194.7	165.6	133.1	99.1	66.1	40.7	26.7	18.6	16.0
135°	155.6	151.9	137.8	116.4	92.5	69.7	47.7	31.2	22.7	17.5	15.5
145°	96.9	94.3	85.9	72.6	58.5	45.1	33.4	24.7	21.1	18.8	17.7
155°	53.3	51.2	45.5	38.8	32.1	26.9	24.2	22.2	21.7	20.8	20.3
165°	31.6	30.9	29.6	27.9	26.5	25.4	25.5	25.2	25.0	24.4	24.1
175°	29.1	29.1	28.9	28.8	28.6	28.5	29.1	28.9	28.6	28.2	28.1
180°	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):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
5°	28.4	28.1	28.1	28.3	28.4	27.9	27.9	28.1	28.2	28.3	28.4
15°	25.4	25.1	24.8	24.4	23.9	23.3	22.8	22.5	22.3	22.2	22.5
25°	21.9	21.2	20.2	18.6	16.8	15.0	13.6	12.6	12.0	11.8	12.0
35°	18.1	16.3	14.1	11.6	9.0	6.4	4.5	3.3	2.7	2.6	2.7
45°	14.7	12.4	10.0	7.1	3.9	2.1	1.4	1.3	1.3	1.3	1.4
50°	13.9	11.4	8.6	5.2	2.4	1.2	1.0	0.8	0.7	0.7	0.7
55°	13.7	10.8	7.4	4.0	1.6	0.8	0.7	0.5	0.4	0.4	0.4
60°	13.9	10.5	6.9	3.3	1.1	0.7	0.5	0.4	0.4	0.4	0.4
62.5°	14.0	10.3	6.8	3.0	0.9	0.6	0.4	0.4	0.4	0.4	0.4
65°	14.1	10.2	6.7	2.8	0.7	0.6	0.5	0.4	0.4	0.4	0.4
67.5°	14.2	10.1	6.7	2.5	0.7	0.6	0.5	0.5	0.4	0.4	0.4
70°	14.3	10.1	6.6	2.4	0.7	0.5	0.5	0.5	0.5	0.5	0.5
72.5°	14.4	10.0	6.6	2.1	0.6	0.5	0.5	0.5	0.5	0.5	0.5
75°	14.4	10.0	6.5	1.9	0.6	0.5	0.5	0.5	0.5	0.5	0.5
77.5°	14.5	9.9	6.4	1.8	0.6	0.5	0.5	0.5	0.5	0.5	0.5
80°	14.6	9.9	6.2	1.7	0.6	0.5	0.5	0.5	0.5	0.5	0.5
82.5°	14.6	9.9	6.0	1.6	0.7	0.5	0.5	0.5	0.5	0.5	0.5
85°	14.7	9.9	5.7	1.6	0.7	0.5	0.5	0.5	0.5	0.5	0.5
87.5°	14.7	10.0	5.5	1.5	0.7	0.5	0.5	0.5	0.5	0.5	0.5
90°	14.7	10.0	5.5	1.4	0.7	0.5	0.5	0.5	0.5	0.5	0.5
95°	14.8	10.1	5.4	1.4	0.7	0.5	0.5	0.5	0.5	0.5	0.5
105°	14.9	10.1	6.1	1.6	0.6	0.5	0.5	0.5	0.5	0.5	0.5
115°	14.6	10.2	6.5	2.2	0.7	0.6	0.5	0.5	0.5	0.5	0.5
125°	13.8	10.3	6.6	3.2	1.0	0.7	0.6	0.5	0.5	0.5	0.5
135°	13.7	11.2	8.3	4.9	2.2	1.1	0.9	0.8	0.6	0.6	0.6
145°	16.5	14.0	11.4	8.5	5.3	3.2	1.8	1.1	0.8	0.9	0.9
155°	19.6	18.1	16.0	13.8	11.5	9.7	8.2	7.1	6.8	6.9	7.2
165°	23.9	23.0	22.1	21.0	20.1	19.1	18.5	18.2	18.1	18.2	18.6
175°	28.1	27.8	27.6	27.4	27.3	27.1	27.0	27.2	27.3	27.3	27.4
180°	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):**

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
5°	28.4	29.3	29.5	29.8	30.0	30.0	30.2	30.4	30.7	30.6	30.5
15°	23.1	24.1	25.3	26.9	28.6	30.1	31.9	33.3	34.4	34.9	35.5
25°	12.7	14.2	16.4	19.9	23.8	27.9	32.4	36.6	39.1	40.5	43.0
35°	3.3	4.9	7.7	12.1	17.8	24.4	31.9	39.5	44.2	47.4	53.3
45°	1.3	1.4	2.4	5.8	12.5	20.9	31.2	42.4	49.2	54.9	65.3
50°	0.9	1.1	1.3	3.7	10.1	19.6	30.9	43.5	51.5	58.5	71.4
55°	0.5	0.8	1.0	2.4	8.2	18.2	30.3	44.2	53.2	61.3	77.0
60°	0.4	0.5	0.8	1.5	6.7	17.1	29.5	44.4	54.1	63.5	81.5
62.5°	0.4	0.4	0.7	1.1	6.0	16.5	29.0	44.4	54.4	64.2	83.7
65°	0.4	0.4	0.7	0.9	5.4	15.9	28.4	44.1	54.4	64.7	85.2
67.5°	0.4	0.4	0.7	0.8	4.8	15.3	27.9	43.7	54.1	64.9	86.3
70°	0.4	0.4	0.6	0.8	4.2	14.8	27.4	43.3	53.9	64.8	87.1
72.5°	0.5	0.4	0.6	0.7	3.8	14.2	26.8	42.8	53.4	64.7	87.8
75°	0.5	0.4	0.5	0.7	3.4	13.6	26.4	42.3	52.9	64.2	88.0
77.5°	0.5	0.4	0.4	0.7	3.1	13.0	25.9	41.7	52.4	63.9	88.0
80°	0.5	0.5	0.4	0.7	2.8	12.6	25.5	41.2	51.7	63.3	87.8
82.5°	0.5	0.5	0.4	0.7	2.5	12.1	25.2	40.7	51.2	62.6	87.4
85°	0.5	0.5	0.4	0.7	2.4	11.8	24.9	40.3	50.6	62.1	87.1
87.5°	0.5	0.5	0.4	0.7	2.4	11.5	24.7	40.0	50.0	61.8	86.6
90°	0.5	0.4	0.4	0.7	2.3	11.3	24.6	39.8	49.7	61.3	86.3
95°	0.5	0.4	0.4	0.7	2.2	11.2	24.3	39.6	49.5	61.3	86.1
105°	0.5	0.5	0.4	0.7	2.5	12.0	24.7	40.2	50.0	62.1	85.5
115°	0.5	0.5	0.6	0.8	3.6	13.5	25.5	40.9	50.0	61.5	81.6
125°	0.5	0.5	0.8	1.2	5.6	15.2	26.6	40.4	48.3	58.0	73.7
135°	0.8	1.0	1.2	3.1	8.7	17.4	27.2	38.3	44.4	52.0	62.9
145°	1.3	1.8	3.9	7.5	13.4	20.3	28.0	36.0	40.0	44.9	51.3
155°	8.5	10.8	13.6	17.4	21.9	27.0	31.5	36.0	37.5	39.2	41.4
165°	19.6	20.8	22.5	24.7	26.9	29.3	31.1	32.6	33.2	33.9	34.4
175°	27.8	28.2	28.7	29.1	29.4	29.8	30.1	29.7	29.8	29.8	29.8
180°	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):**

	295°	305°	315°	325°	335°	345°	355°	360°
0°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
5°	30.4	30.4	30.4	30.4	30.3	30.2	30.1	30.1
15°	36.1	36.6	36.9	37.7	38.2	38.4	37.8	37.2
25°	45.8	49.0	52.8	57.4	60.8	64.0	64.2	63.1
35°	59.9	68.7	79.1	90.2	100.6	108.0	110.0	108.8
45°	77.3	93.1	113.1	135.5	153.9	167.4	172.5	171.4
50°	86.6	106.5	132.2	159.9	181.7	197.2	204.3	203.0
55°	95.7	119.1	149.4	182.0	206.0	224.4	233.8	232.1
60°	103.8	130.2	163.7	199.1	225.3	244.8	255.6	254.0
62.5°	106.9	134.4	169.0	206.1	232.1	252.8	263.7	262.6
65°	109.8	137.9	173.4	211.3	237.7	258.8	270.2	269.1
67.5°	112.1	140.8	177.0	215.1	242.2	262.6	274.9	273.9
70°	113.8	142.7	179.5	218.2	245.0	266.0	278.2	277.6
72.5°	115.0	144.3	181.1	220.3	247.2	267.9	280.2	279.7
75°	115.4	145.1	182.1	221.3	248.4	269.1	281.4	280.5
77.5°	115.9	145.7	182.6	222.2	248.8	269.6	281.9	281.1
80°	115.9	145.8	182.9	222.3	248.8	269.6	281.4	280.7
82.5°	115.7	145.8	182.8	222.1	248.6	269.0	280.9	280.2
85°	115.4	145.4	182.7	221.9	248.2	268.7	280.9	280.4
87.5°	115.0	145.1	182.5	221.5	248.2	268.5	280.7	280.4
90°	114.7	145.0	182.4	221.4	248.4	268.2	280.9	280.4
95°	114.2	144.5	181.5	220.8	248.3	268.9	281.2	280.8
105°	112.6	141.3	177.3	216.9	244.4	265.5	278.3	277.5
115°	105.2	131.6	164.8	202.3	229.7	249.9	261.4	260.6
125°	91.3	112.1	138.6	168.8	192.3	210.3	218.3	216.6
135°	74.3	87.5	104.5	123.8	140.2	152.7	157.3	155.6
145°	57.5	63.9	71.9	81.5	90.0	96.3	99.1	96.9
155°	43.4	45.2	48.5	51.9	54.6	56.0	55.3	53.3
165°	34.4	34.2	34.0	33.8	33.7	33.2	32.3	31.6
175°	29.7	29.7	29.7	29.5	29.6	29.1	29.1	29.1
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)