Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled data based on original data using

LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P936299

Luminaire Tested: SQ4-FB-025U-050D-B35-1D-UNV-W2A-W-6

Issue Date: 12/17/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

Test Information

Test Method:	LM-79-2019
Report Number:	P936299
	REPORT IS A COMBINATION OF REPORTS P933445 AND P933786
Test Lab:	INNOVATION CENTER
Issue Date:	12/17/2024
Manufacturer:	COOPER LIGHTING SOLUTIONS
Product Line:	CORELITE
Catalog Number:	SQ4-FB-025U-050D-B35-1D-UNV-W2A-W-6
Description:	CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Batwing Frosted Continous Roll L
Light Source:	-
Ballast/Driver:	-

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	3751.9 lumens
Efficiency:	N/A
Efficacy:	113.7 lumens/watt
Spacing Criteria (0/90/45):	0.71 / 2.69 / 2.33
Luminous Opening:	Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type:	Semi-Direct

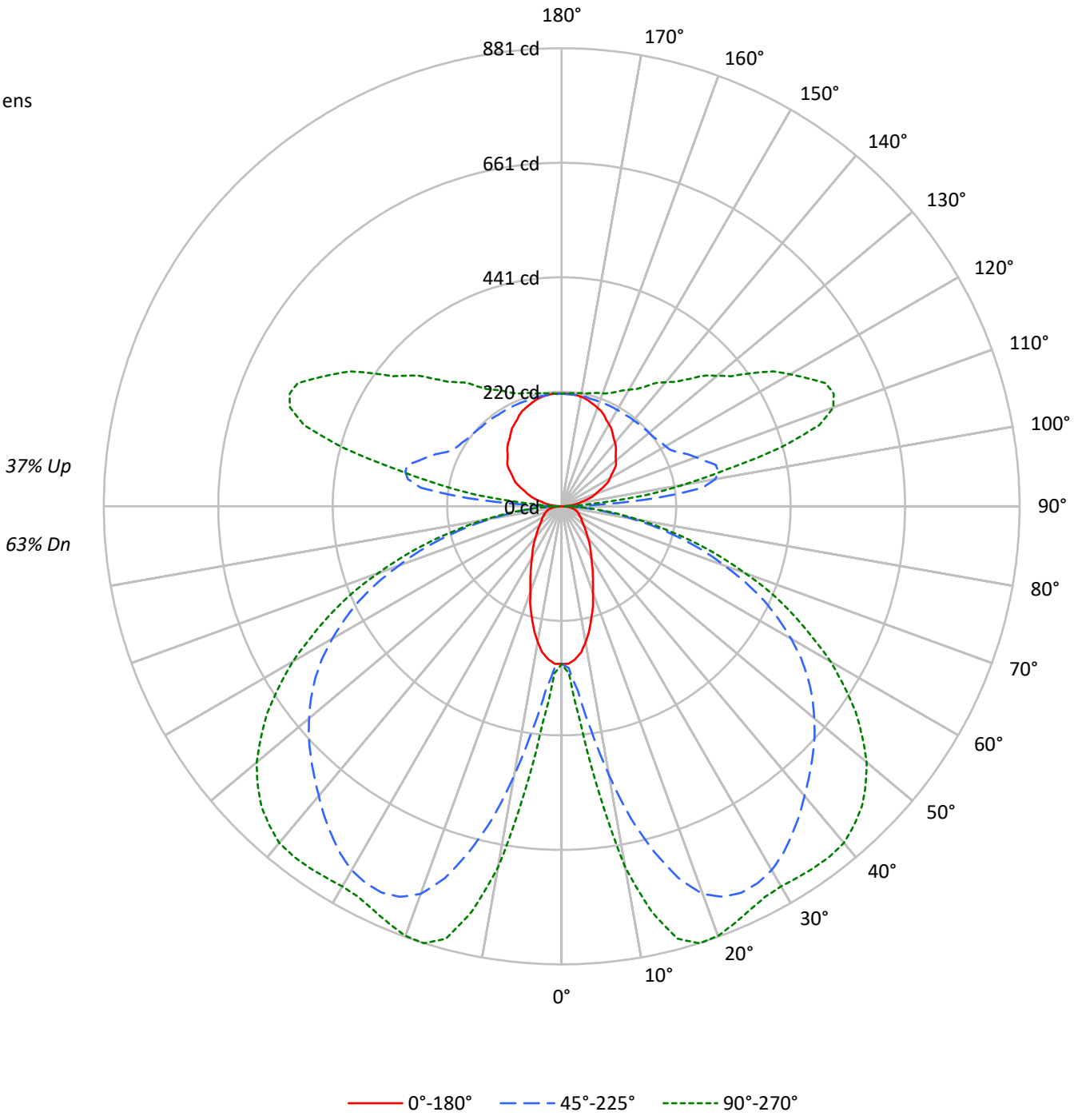
Input Watts (W):	33
Input Voltage (V):	NR
Input Current (Ain):	NR
Voltage Rise (V):	NR
Power Factor:	NR
Total Harmonic Distortion (THDi):	NR
Frequency (hertz):	60
Stabilization Time:	NR
Operation Time:	NR
Ambient Temperature (°C):	NR
Test Distance:	24 FT

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P936299
CATALOG NUMBER: SQ4-FB-025U-050D-B35-1D-UNV-W2A-W-6

Luminous Intensity Polar Plot



Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P936299
CATALOG NUMBER: SQ4-FB-025U-050D-B35-1D-UNV-W2A-W-6

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	110	110	110	110	103	103	103	103	90	90	90	78	78	78	68	68	68	63
1	100	95	91	87	93	89	86	82	78	75	73	68	66	64	59	57	56	51
2	90	82	76	70	84	77	71	66	68	63	59	59	55	52	51	48	46	42
3	82	72	64	57	76	67	60	55	59	53	49	51	47	43	44	41	38	34
4	75	63	54	48	69	59	52	46	52	46	41	45	40	37	39	35	32	29
5	68	56	47	41	63	52	45	39	46	40	35	40	35	31	35	31	28	24
6	63	50	41	35	58	47	39	33	41	35	30	36	31	27	31	27	24	21
7	58	45	36	30	54	42	34	29	37	31	26	33	27	23	28	24	21	18
8	53	40	32	26	50	38	31	25	34	27	23	30	24	21	26	22	18	16
9	50	37	29	23	46	35	27	22	31	25	20	27	22	18	24	19	16	14
10	46	34	26	21	43	32	25	20	28	22	18	25	20	16	22	18	15	13

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	1875	1875	1875
5°	1832	2167	2520
10°	1660	3158	4178
15°	1410	4124	5046
20°	1148	4779	5143
25°	958	4999	5038
30°	807	5029	5028
35°	713	4944	5158
40°	621	4835	5293
45°	562	4754	5314
50°	515	4681	5225
55°	493	4575	4994
60°	505	4372	4628
65°	523	4064	4125
70°	557	3541	3486
75°	614	2886	2721
80°	664	1998	1832
85°	584	1059	938

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 90°
Vertical Angle: 45°
Luminance: 5314 cd/sqm

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P936299
CATALOG NUMBER: SQ4-FB-025U-050D-B35-1D-UNV-W2A-W-6

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.2	1.0
10°-20°	173.8	4.6
20°-30°	304.0	8.1
30°-40°	391.3	10.4
40°-50°	437.1	11.6
50°-60°	418.6	11.2
60°-70°	331.7	8.8
70°-80°	195.1	5.2
80°-90°	55.0	1.5
90°-100°	105.7	2.8
100°-110°	278.0	7.4
110°-120°	288.2	7.7
120°-130°	231.2	6.2
130°-140°	181.4	4.8
140°-150°	139.2	3.7
150°-160°	100.3	2.7
160°-170°	61.4	1.6
170°-180°	20.7	0.6
0°-30°	517.0	13.8
0°-40°	908.3	24.2
0°-60°	1764.0	47.0
0°-90°	2345.8	62.5
90°-120°	671.9	17.9
90°-150°	1223.8	32.6
90°-180°	1406.0	37.5
0°-180°	3751.9	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	303	303	303	303	303	
5°	295	317	357	404	418	27
15°	221	408	688	834	861	62
25°	141	463	820	856	857	65
35°	96	442	772	816	848	60
45°	65	353	682	782	817	51
55°	47	224	579	672	691	43
65°	37	119	430	483	490	37
75°	27	73	236	259	260	29
85°	10	22	58	64	65	10
90°	2	4	11	6	6	2
95°	14	55	182	94	64	16
105°	50	76	307	467	435	53
115°	89	108	246	491	560	88
125°	124	139	224	378	446	110
135°	148	162	217	305	346	114
145°	171	182	214	261	281	107
155°	193	199	214	235	242	89
165°	209	211	214	223	225	59
175°	217	217	216	218	218	21
180°	217	217	217	217	217	

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P936299
CATALOG NUMBER: SQ4-FB-025U-050D-B35-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1	303.1
2.5°	303.1	303.1	305.0	306.0	308.0	309.0	311.0	312.9	318.7	319.7	321.6
5°	295.4	299.2	311.9	316.8	330.4	348.9	356.7	369.4	395.7	403.5	408.4
7.5°	283.6	292.4	323.5	331.4	365.5	414.2	434.7	462.0	503.9	524.4	541.0
10°	265.1	283.6	339.2	357.8	413.3	487.3	525.4	563.4	626.7	654.9	665.7
12.5°	244.7	274.9	355.7	381.1	461.1	569.2	615.0	657.0	729.1	767.1	772.9
15°	221.2	262.2	371.3	408.4	511.7	637.4	688.1	739.8	807.1	834.3	841.2
17.5°	200.8	252.4	386.0	425.0	550.7	698.8	750.5	793.4	848.0	866.5	871.3
20°	*175.5*	*236.8*	*395.7*	*446.4*	*591.7*	*743.7*	*793.4*	*826.6*	*863.6*	*875.3*	*877.2*
22.5°	156.9	220.3	401.6	454.2	618.9	770.9	812.9	839.2	864.5	868.4	869.4
25°	141.4	201.7	400.6	463.0	642.4	787.5	819.7	839.2	853.8	855.7	855.7
27.5°	126.7	181.3	396.7	464.9	659.9	791.5	816.8	830.4	837.2	841.2	841.2
30°	114.1	161.8	386.9	461.1	667.6	787.5	808.0	814.8	821.6	827.5	830.4
32.5°	104.3	143.3	372.3	453.2	668.6	777.8	792.4	796.3	806.0	819.7	824.6
35°	95.5	124.8	355.7	442.5	662.8	762.2	771.9	775.9	795.4	815.8	822.6
37.5°	86.7	111.1	334.3	424.0	654.0	743.7	750.5	757.4	787.5	811.9	819.7
40°	78.0	99.4	309.0	403.5	640.4	721.2	727.1	737.8	777.8	806.0	813.9
42.5°	71.1	89.6	281.7	382.1	622.8	695.9	704.7	720.3	766.1	796.3	805.0
45°	65.3	79.9	252.4	352.8	600.4	669.6	682.3	703.7	752.4	781.7	789.4
47.5°	59.5	73.1	222.2	322.6	576.1	643.3	659.9	684.2	733.9	762.2	769.0
50°	54.6	66.3	192.1	290.4	549.7	615.0	634.5	659.9	710.6	736.8	745.6
52.5°	50.7	60.5	163.8	258.3	519.5	585.8	608.2	634.5	682.3	707.7	713.5
55°	46.8	55.5	139.3	224.1	488.3	554.6	579.0	604.3	651.1	672.5	676.5
57.5°	44.9	51.6	118.9	192.1	455.1	519.5	546.8	570.2	614.1	630.6	634.5
60°	42.0	48.7	103.3	164.7	419.1	486.3	509.8	533.1	570.2	583.8	586.7
62.5°	39.0	46.8	91.7	138.4	382.1	447.4	470.7	492.3	523.4	533.1	537.0
65°	37.0	44.9	82.8	118.9	344.1	406.4	429.8	448.4	473.6	483.4	485.4
67.5°	35.1	42.9	76.1	102.3	306.0	365.5	383.0	400.6	420.1	429.8	430.8
70°	32.2	40.9	70.2	90.6	267.1	318.7	333.3	351.8	367.4	372.3	375.3
72.5°	30.2	38.0	66.3	81.9	227.1	273.8	287.5	298.3	311.9	316.8	316.8
75°	27.3	34.1	62.4	73.1	186.1	224.1	235.9	246.6	257.3	259.3	256.3
77.5°	24.3	30.2	53.6	61.4	145.3	177.4	187.1	193.0	201.7	203.7	204.7
80°	20.4	26.4	42.0	47.8	105.2	130.6	137.4	142.3	150.1	150.1	152.0
82.5°	15.6	20.4	30.2	34.1	71.1	89.6	95.5	98.5	103.3	103.3	103.3
85°	9.8	12.7	19.5	22.4	42.9	54.6	58.5	59.5	63.4	64.3	64.3
87.5°	4.8	6.8	12.7	13.7	22.4	28.3	28.3	30.2	30.2	29.3	28.3
90°	1.5	2.6	3.8	4.1	6.4	9.5	11.0	9.8	7.4	5.5	5.5
92.5°	5.8	15.7	25.6	28.1	39.5	54.7	62.3	54.6	39.1	27.6	26.6
95°	14.0	32.1	50.2	54.7	97.2	153.8	182.1	162.5	123.3	93.9	90.6
97.5°	24.1	40.1	56.1	60.1	130.9	225.3	272.5	260.1	235.4	216.8	210.5
100°	32.1	46.5	61.0	64.6	143.2	248.0	300.3	301.2	303.0	304.4	296.8
102.5°	38.8	52.3	65.8	69.2	148.8	255.0	308.1	323.9	355.5	379.3	372.8
105°	50.1	61.5	73.0	75.9	153.0	255.8	307.3	342.6	413.5	466.6	463.1
107.5°	61.7	72.4	83.0	85.8	153.8	244.5	289.8	339.2	438.0	512.0	512.9
110°	69.6	79.3	88.9	91.3	152.6	234.4	275.3	330.5	440.9	523.6	527.2

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P936299
CATALOG NUMBER: SQ4-FB-025U-050D-B35-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	77.3	86.5	95.6	98.0	152.6	225.6	262.0	318.5	431.5	516.2	521.7
115°	89.0	97.5	105.9	108.0	154.1	215.4	246.1	300.6	409.4	491.0	498.7
117.5°	100.5	108.1	115.8	117.7	156.9	209.1	235.3	284.4	382.6	456.2	464.7
120°	107.2	114.4	121.6	123.5	159.3	207.1	230.9	275.8	365.5	432.9	441.2
122.5°	113.7	121.0	128.3	130.1	162.6	205.9	227.5	267.9	348.7	409.4	417.6
125°	123.7	130.4	137.1	138.8	167.2	205.0	223.9	258.2	326.9	378.4	386.0
127.5°	131.9	138.6	145.4	147.0	171.6	204.5	220.8	250.3	309.3	353.5	359.9
130°	136.2	143.5	150.7	152.5	174.9	204.7	219.7	245.9	298.4	337.7	343.6
132.5°	140.8	148.1	155.2	157.1	177.6	205.0	218.7	242.2	289.1	324.3	329.6
135°	147.5	154.1	160.7	162.3	180.5	204.8	217.0	236.6	276.0	305.4	310.0
137.5°	154.4	160.9	167.3	169.0	184.9	206.1	216.7	233.3	266.6	291.5	295.2
140°	160.0	166.0	172.0	173.5	187.6	206.3	215.6	229.9	258.7	280.2	283.7
142.5°	164.3	169.9	175.5	176.8	189.7	207.0	215.6	228.2	253.5	272.4	275.4
145°	171.0	175.9	180.7	182.0	192.7	207.0	214.1	224.4	245.1	260.6	262.8
147.5°	177.7	182.5	187.2	188.4	197.0	208.4	214.1	222.3	238.5	250.7	252.5
150°	182.1	186.3	190.7	191.8	199.2	209.2	214.1	221.0	234.7	245.0	246.5
152.5°	186.6	189.8	193.1	193.9	200.7	209.7	214.1	220.0	231.7	240.5	241.7
155°	193.3	195.7	198.2	198.7	203.9	210.8	214.1	218.8	228.1	235.1	235.9
157.5°	198.3	200.6	202.9	203.5	207.1	211.8	214.1	217.7	225.0	230.4	231.0
160°	201.6	203.5	205.2	205.7	208.5	212.3	214.1	217.2	223.5	228.1	228.4
162.5°	204.9	206.3	207.7	208.0	210.1	212.8	214.1	216.8	222.0	226.0	226.3
165°	208.6	209.8	211.0	211.3	212.3	213.6	214.1	216.0	219.8	222.6	222.9
167.5°	211.9	212.5	213.1	213.3	214.1	215.1	215.6	216.9	219.3	221.1	221.2
170°	214.1	214.7	215.3	215.4	215.5	215.6	215.6	216.9	219.3	221.1	221.1
172.5°	215.3	215.4	215.6	215.6	215.6	215.6	215.6	216.6	218.5	220.0	219.9
175°	217.0	217.0	217.0	217.0	216.5	215.9	215.6	216.2	217.4	218.4	218.4
177.5°	217.0	217.0	217.0	217.0	216.6	216.1	215.9	216.4	217.3	218.1	218.0
180°	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0	217.0

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

Scaled Data Report

TEST NUMBER: P936299
CATALOG NUMBER: SQ4-FB-025U-050D-B35-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°
0°	*303.1*	303.1
2.5°	*323.5*	321.6
5°	*416.2*	418.1
7.5°	*560.5*	559.5
10°	*696.9*	705.6
12.5°	*796.3*	798.3
15°	*856.8*	860.7
17.5°	*880.1*	881.1
20°	*881.1*	*879.2*
22.5°	*870.4*	868.4
25°	*857.8*	856.8
27.5°	*846.0*	847.0
30°	*841.2*	844.1
32.5°	*841.2*	846.0
35°	*843.1*	848.0
37.5°	*842.2*	848.0
40°	*838.2*	845.1
42.5°	*827.5*	832.4
45°	*811.0*	816.8
47.5°	*789.4*	793.4
50°	*762.2*	766.1
52.5°	*728.1*	729.1
55°	*687.1*	691.1
57.5°	*643.3*	644.3
60°	*594.6*	597.5
62.5°	*542.9*	542.9
65°	*488.3*	490.2
67.5°	*431.8*	436.6
70°	*374.3*	375.3
72.5°	*317.7*	317.7
75°	*259.3*	260.3
77.5°	*203.7*	203.7
80°	*151.1*	152.0
82.5°	*104.3*	106.2
85°	*65.3*	65.3
87.5°	*30.2*	27.3
90°	*5.5*	5.5
92.5°	*22.1*	17.7
95°	*77.2*	64.0
97.5°	*185.1*	159.7
100°	*266.7*	236.4
102.5°	*346.9*	321.0
105°	*449.2*	435.3
107.5°	*516.2*	519.6
110°	*541.8*	556.3

TEST NUMBER: P936299
CATALOG NUMBER: SQ4-FB-025U-050D-B35-1D-UNV-W2A-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°
112.5°	*544.0*	566.3
115°	*529.6*	560.5
117.5°	*499.0*	533.2
120°	*474.4*	507.7
122.5°	*450.4*	483.1
125°	*416.1*	446.3
127.5°	*385.4*	410.9
130°	*367.2*	390.7
132.5°	*350.7*	371.8
135°	*328.1*	346.3
137.5°	*310.1*	324.9
140°	*297.6*	311.5
142.5°	*287.3*	299.3
145°	*271.9*	281.0
147.5°	*260.1*	267.5
150°	*252.6*	258.7
152.5°	*246.2*	250.9
155°	*238.9*	242.0
157.5°	*233.1*	235.3
160°	*229.7*	230.9
162.5°	*227.4*	228.6
165°	*224.1*	225.4
167.5°	*221.8*	222.3
170°	*221.1*	221.1
172.5°	*219.4*	219.0
175°	*218.4*	218.4
177.5°	*217.4*	217.0
180°	*217.0*	217.0

(END OF REPORT)