

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: CORELITE

Report Number: 1,707

Luminaire Tested: **JW-SM-1T8-1C-UNV-SU-WA-4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 1,707
Test Lab: TUV SUD America
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: JW-SM-1T8-1C-UNV-SU-WA-4
Description: Jaylum Wall, Specular Optics, Clear Linear Prismatic Lens,
Fluorescent
Light Source: -
1-T828W
Ballast/Driver: -

Summary

Lumens per Lamp: 3100 (1 lamp)
Luminaire Lumens: 2315.7 lumens
Efficiency: 74.7%
Efficacy: 69.7 lumens/watt
Spacing Criteria (0/90/45): 1.12 / 1.21 / 1.24
Luminous Opening: Rectangular (W 3.62' x L: 0.09' x H: 0')
CIE Type: General Diffuse

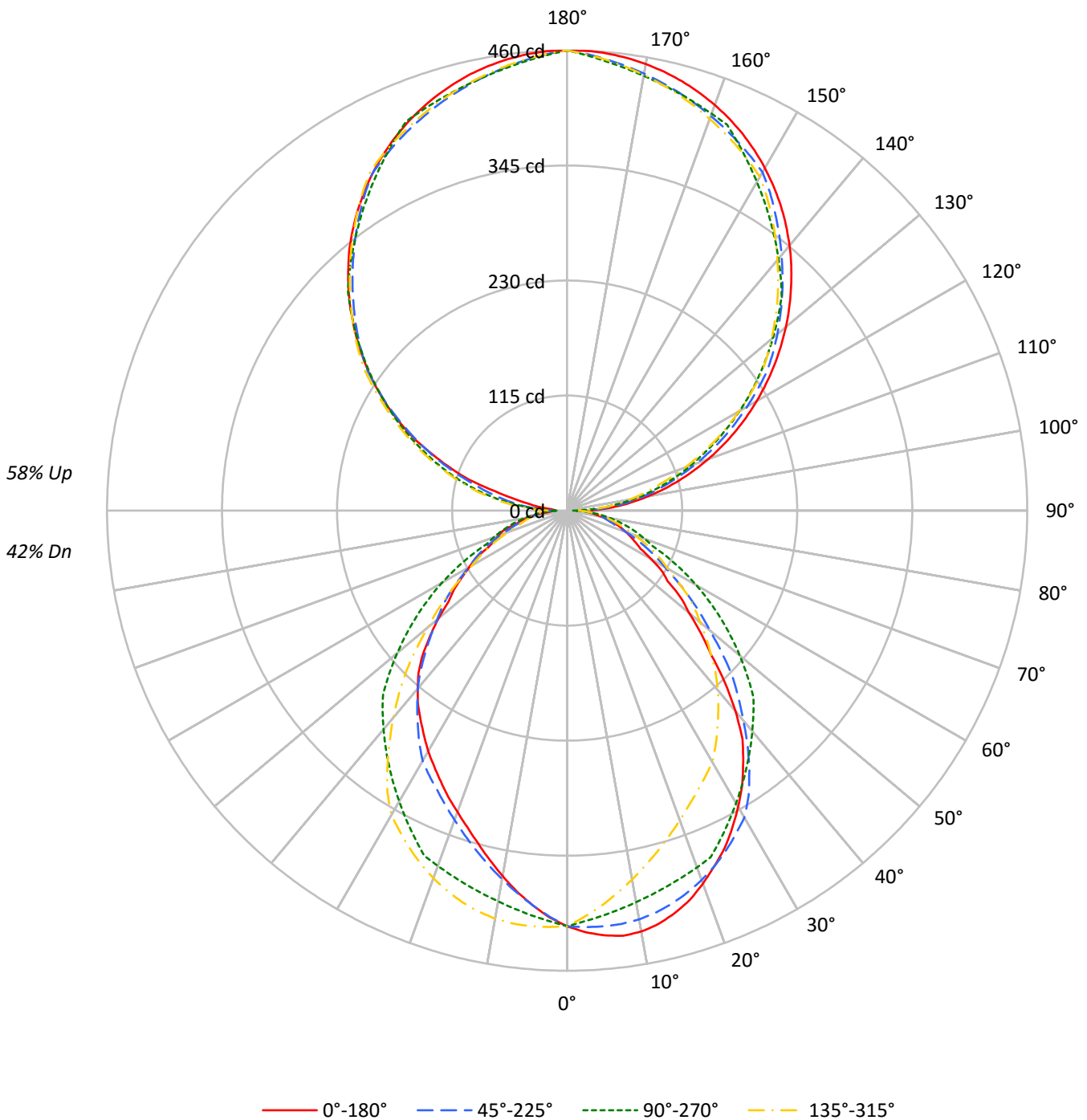
Input Watts (W): 33.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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	79	79	79	79	72	72	72	72	59	59	59	47	47	47	36	36	36	31
1	72	68	66	63	65	63	60	58	52	50	48	41	40	39	32	31	31	26
2	65	60	55	52	59	55	51	48	45	43	40	37	35	33	28	27	26	22
3	60	53	47	43	54	48	44	40	40	37	34	32	30	28	25	24	22	19
4	55	47	41	37	50	43	38	34	36	32	29	29	26	24	23	21	19	17
5	50	42	36	31	46	38	33	29	32	28	25	26	23	21	21	19	17	14
6	46	37	32	27	42	35	29	26	29	25	22	24	21	18	19	17	15	13
7	43	34	28	24	39	31	26	22	26	22	19	22	19	16	17	15	13	11
8	40	31	25	21	36	28	23	20	24	20	17	20	17	15	16	14	12	10
9	37	28	23	19	34	26	21	18	22	18	15	18	15	13	15	12	11	9
10	35	26	20	17	32	24	19	16	20	16	14	17	14	12	14	11	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13125	13125	13125	13125
5°	13518	12890	12557	12880
10°	13706	12750	11903	12728
15°	13618	12705	11260	12669
20°	13339	12761	10774	12707
25°	12983	12638	10415	12575
30°	12471	12321	10133	12245
35°	11831	12066	9849	11978
40°	10796	11876	9579	11773
45°	9082	11758	9131	11633
50°	7824	11067	8261	10900
55°	6752	10304	7622	10089
60°	6109	9420	7120	9129
65°	5636	8304	6488	7908
70°	5763	7620	6761	7195
75°	6017	7726	6530	7396
80°	6367	8022	7277	7877
85°	8409	9025	6778	9423



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	38.5	1.7	1.2
10°-20°	107.4	4.6	3.5
20°-30°	158.3	6.8	5.1
30°-40°	181.9	7.9	5.9
40°-50°	173.4	7.5	5.6
50°-60°	136.6	5.9	4.4
60°-70°	91.5	3.9	3.0
70°-80°	55.8	2.4	1.8
80°-90°	27.8	1.2	0.9
90°-100°	43.1	1.9	1.4
100°-110°	104.4	4.5	3.4
110°-120°	167.0	7.2	5.4
120°-130°	215.2	9.3	6.9
130°-140°	236.2	10.2	7.6
140°-150°	225.6	9.7	7.3
150°-160°	187.2	8.1	6.0
160°-170°	122.7	5.3	4.0
170°-180°	43.0	1.9	1.4
0°-30°	304.2	13.1	9.8
0°-40°	486.1	21.0	15.7
0°-60°	796.2	34.4	25.7
0°-90°	971.2	41.9	31.3
90°-120°	314.5	13.6	10.1
90°-150°	991.6	42.8	32.0
90°-180°	1344.0	58.0	43.4
0°-180°	2315.7	100.0	74.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	416	416	416	416	416	
5°	426	406	396	406	426	41
15°	416	388	344	387	416	117
25°	372	363	299	361	372	171
35°	307	313	255	311	307	191
45°	203	263	204	260	203	159
55°	123	187	138	183	123	113
65°	75	111	87	106	75	76
75°	49	63	54	61	49	52
85°	23	25	19	26	23	22
90°	24	6	14	9	24	14
95°	51	37	16	41	51	48
105°	116	100	74	107	116	122
115°	184	164	167	173	184	182
125°	253	234	242	241	253	226
135°	317	303	309	310	317	244
145°	372	354	365	359	372	233
155°	415	405	410	409	415	191
165°	444	432	441	434	444	125
175°	459	451	458	452	459	44
180°	460	460	460	460	460	



TEST NUMBER: 1,707

CATALOG NUMBER: JW-SM-1T8-1C-UNV-SU-WA-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	415.5	415.5	415.5	415.5	415.5	415.5	415.5	415.5	415.5	415.5	415.5
2.5°	421.9	419.6	416.8	413.7	410.9	408.1	406.3	406.0	407.0	405.9	406.2
5°	426.3	422.1	417.2	412.0	406.5	400.8	396.3	394.3	396.0	394.3	396.0
7.5°	428.7	422.6	416.7	409.8	402.0	393.3	385.5	382.0	384.1	382.0	385.3
10°	427.3	420.4	414.9	407.2	397.5	385.2	374.4	368.9	371.1	368.9	374.2
12.5°	423.1	415.7	411.4	404.5	393.0	377.3	363.0	355.5	357.6	355.5	362.9
15°	416.4	408.9	406.5	401.2	388.5	369.2	351.7	342.2	344.3	342.2	351.5
17.5°	408.1	400.2	400.3	397.7	384.0	361.2	340.4	329.4	331.9	329.3	340.3
20°	396.8	389.5	393.0	394.1	379.6	353.4	329.3	317.6	320.5	317.2	329.1
22.5°	384.6	377.5	384.8	389.4	375.1	345.5	318.7	306.5	310.1	306.0	318.3
25°	372.5	365.0	375.3	381.8	362.6	335.8	308.6	295.5	298.8	294.8	307.9
27.5°	357.5	351.5	364.8	368.6	350.2	322.0	299.4	284.2	288.1	283.4	298.5
30°	341.9	336.3	354.4	354.5	337.8	308.2	290.3	273.7	277.8	272.7	289.0
32.5°	325.7	321.0	337.5	340.3	325.3	294.8	276.6	263.0	266.3	261.8	275.0
35°	306.8	303.7	317.5	325.9	312.9	281.8	262.3	252.0	255.4	250.6	260.4
37.5°	287.8	284.9	296.4	311.2	300.5	268.9	248.2	241.6	244.9	240.1	246.0
40°	261.8	262.8	274.0	296.4	288.0	256.3	234.6	230.3	232.3	228.6	232.1
42.5°	233.6	236.2	253.1	281.5	275.6	244.0	219.5	218.2	219.9	216.2	216.8
45°	203.3	210.2	233.4	266.2	263.2	231.8	203.2	205.2	204.4	202.8	200.3
47.5°	181.3	189.5	209.3	250.5	244.2	219.2	188.2	189.3	185.7	186.4	184.7
50°	159.2	163.9	186.0	229.7	225.2	201.6	173.6	167.6	168.1	164.1	169.6
52.5°	143.7	146.8	166.6	208.6	206.2	184.4	160.7	154.0	149.3	151.4	157.0
55°	122.6	128.3	147.4	187.3	187.1	167.6	146.5	135.4	138.4	134.4	143.2
57.5°	112.3	112.0	129.2	166.4	168.1	151.1	130.0	120.1	125.0	121.8	127.3
60°	96.7	97.7	113.0	146.0	149.1	134.9	116.0	105.8	112.7	110.5	113.7
62.5°	82.8	85.5	99.6	126.1	130.1	118.9	105.2	91.3	103.2	98.7	103.3
65°	75.4	74.5	86.9	106.4	111.1	103.1	94.4	79.2	86.8	87.5	92.7
67.5°	68.8	66.1	74.4	86.9	92.1	87.4	82.9	68.6	78.1	77.1	81.0
70°	62.4	59.0	62.8	71.7	82.5	74.7	72.0	60.4	73.2	68.7	69.8
72.5°	56.1	52.3	52.2	63.5	72.9	66.4	62.1	50.3	67.5	61.5	59.4
75°	49.3	45.6	45.0	55.5	63.3	58.2	53.6	43.4	53.5	55.1	51.2
77.5°	42.3	38.8	40.0	47.6	53.7	50.1	46.3	38.2	47.1	48.8	44.6
80°	35.0	32.0	35.0	39.9	44.1	42.0	39.1	33.6	40.0	41.9	38.2
82.5°	27.8	27.4	30.2	32.3	34.5	33.9	32.1	28.4	32.1	34.6	31.8
85°	23.2	24.5	25.4	24.8	24.9	25.9	25.2	22.8	18.7	27.6	25.6
87.5°	21.9	22.0	20.6	17.3	15.3	17.9	18.4	17.4	15.7	21.0	19.4
90°	23.5	19.7	15.7	9.8	5.6	9.9	11.6	12.1	14.4	14.5	13.2
92.5°	36.0	33.2	30.4	25.2	21.3	24.6	24.4	18.3	12.3	18.9	25.7
95°	50.7	47.0	45.0	40.4	37.0	39.4	37.3	24.8	16.2	23.5	38.4
97.5°	66.2	61.0	59.7	55.8	52.7	54.1	50.4	32.0	29.1	28.6	51.2
100°	82.3	75.9	74.5	71.1	68.4	68.9	63.6	43.5	38.8	36.2	64.4
102.5°	98.7	91.9	89.4	86.4	84.1	83.7	77.2	61.6	53.9	48.0	78.0
105°	115.5	108.6	104.5	101.8	99.8	98.6	91.1	81.0	74.3	62.1	92.1
107.5°	132.4	126.1	120.3	117.2	115.5	113.5	107.0	101.6	102.8	78.8	108.7
110°	149.6	144.2	137.4	132.6	131.2	128.5	124.9	123.2	123.8	98.6	127.6



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CATALOG NUMBER: JW-SM-1T8-1C-UNV-SU-WA-4

CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	167.0	161.0	154.6	149.3	146.9	145.0	143.0	142.9	144.7	119.0	146.5
115°	184.4	177.2	172.1	166.7	164.3	162.4	161.4	161.2	167.3	141.4	165.4
117.5°	201.6	193.8	189.8	184.1	181.6	179.8	179.8	179.8	187.2	165.5	184.9
120°	218.7	210.8	207.7	201.6	199.0	197.3	198.4	198.0	206.2	188.9	204.8
122.5°	235.7	228.0	225.9	219.1	216.4	214.9	217.2	216.3	224.7	213.5	224.0
125°	252.6	245.5	244.3	236.6	233.8	232.5	236.2	234.7	242.4	236.6	243.3
127.5°	269.2	263.2	259.4	254.3	251.2	250.2	251.6	253.1	259.7	256.7	258.6
130°	285.4	280.8	274.3	272.0	268.5	267.8	266.7	271.7	276.4	275.6	273.4
132.5°	301.3	298.4	289.1	289.6	285.9	285.5	281.9	289.5	292.9	293.3	288.1
135°	316.7	312.3	304.0	303.3	303.3	299.3	297.3	303.9	308.8	307.4	302.9
137.5°	331.7	325.6	318.7	316.6	316.0	312.8	312.2	317.6	324.0	320.9	317.6
140°	345.9	338.4	333.5	329.8	328.7	326.1	327.2	330.8	338.9	333.9	332.4
142.5°	359.4	350.8	348.1	342.9	341.4	339.6	342.2	343.4	352.4	346.3	347.1
145°	372.3	362.7	362.6	356.1	354.1	353.0	357.0	355.6	365.4	358.3	361.6
147.5°	384.2	374.2	377.2	369.2	366.7	366.3	371.7	367.5	377.5	370.0	376.0
150°	395.4	385.0	390.5	382.2	379.4	379.6	385.3	378.8	389.2	381.1	389.3
152.5°	405.8	395.1	398.3	395.2	392.1	393.0	393.6	389.4	399.9	391.5	397.3
155°	415.3	404.8	405.8	408.1	404.8	406.1	401.7	399.5	409.9	401.3	405.1
157.5°	423.9	413.6	413.0	416.0	417.5	414.3	409.3	408.8	419.0	410.5	412.3
160°	431.5	421.7	419.9	421.4	422.2	420.0	416.6	417.5	427.2	419.0	419.3
162.5°	438.2	429.1	426.4	426.5	427.0	425.4	423.8	425.6	434.6	426.8	426.0
165°	444.2	435.8	432.5	431.7	431.8	430.8	430.3	432.9	441.1	434.0	432.1
167.5°	449.2	441.8	438.1	436.8	436.5	436.1	436.4	439.6	446.9	440.4	437.9
170°	453.3	447.1	443.5	441.7	441.2	441.2	442.2	445.3	451.4	445.9	443.3
172.5°	456.5	451.6	448.3	446.6	446.0	446.2	447.5	450.3	455.1	450.8	448.3
175°	458.7	455.3	452.7	451.3	450.7	451.0	452.2	454.5	457.9	454.8	452.7
177.5°	460.0	458.2	456.7	455.8	455.5	455.6	456.4	457.8	459.6	458.0	456.7
180°	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0	460.0



TEST NUMBER: 1,707

CATALOG NUMBER: JW-SM-1T8-1C-UNV-SU-WA-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	415.5	415.5	415.5	415.5	415.5	415.5
2.5°	408.0	410.8	413.6	416.7	419.6	421.9
5°	400.4	406.2	411.6	417.0	422.0	426.3
7.5°	392.7	401.5	409.3	416.4	422.5	428.7
10°	384.6	396.8	406.6	414.3	420.1	427.3
12.5°	376.7	392.1	403.8	410.4	415.2	423.1
15°	368.6	387.4	400.2	405.2	408.1	416.4
17.5°	360.6	382.7	396.2	398.7	399.2	408.1
20°	352.9	378.0	392.0	391.0	388.4	396.8
22.5°	345.0	373.4	386.9	382.3	376.4	384.6
25°	335.1	360.8	379.0	372.5	363.7	372.5
27.5°	321.0	348.3	365.4	361.9	350.0	357.5
30°	307.1	335.7	351.0	351.4	334.7	341.9
32.5°	293.6	323.2	336.5	334.3	319.1	325.7
35°	280.3	310.6	321.7	313.4	301.4	306.8
37.5°	267.2	298.1	306.7	291.6	282.6	287.8
40°	254.4	285.5	291.7	270.4	258.9	261.8
42.5°	242.0	273.0	276.7	249.0	232.6	233.6
45°	229.5	260.4	260.5	227.5	207.8	203.3
47.5°	216.6	241.1	243.7	204.3	185.3	181.3
50°	199.0	221.8	222.5	181.9	163.2	159.2
52.5°	181.8	202.5	201.5	162.9	144.0	143.7
55°	165.0	183.2	180.3	143.7	127.0	122.6
57.5°	148.5	163.8	159.5	125.5	110.9	112.2
60°	132.2	144.5	139.2	109.9	96.7	96.7
62.5°	116.1	125.2	119.4	97.8	84.7	82.8
65°	100.3	105.8	100.3	86.1	74.6	75.4
67.5°	84.8	86.5	81.8	73.9	66.8	68.8
70°	72.2	77.9	67.8	62.8	59.8	62.4
72.5°	64.2	69.2	60.9	52.8	52.9	56.1
75°	56.2	60.6	53.9	46.0	46.3	49.3
77.5°	48.3	52.0	47.0	41.3	39.7	42.2
80°	40.4	43.3	40.2	36.7	33.1	35.0
82.5°	32.6	34.7	33.4	32.2	28.7	27.7
85°	24.7	26.0	26.6	27.8	26.1	23.0
87.5°	16.9	17.4	19.8	23.4	24.0	21.7
90°	9.1	8.8	13.0	19.0	22.0	23.5
92.5°	25.0	25.1	28.8	34.0	35.8	36.0
95°	41.0	41.4	44.7	49.1	49.9	50.7
97.5°	56.9	57.7	60.5	64.2	64.4	66.2
100°	72.9	74.0	76.4	79.4	79.4	82.3
102.5°	88.9	90.3	92.3	94.7	95.1	98.7
105°	105.0	106.6	108.2	110.2	111.6	115.5
107.5°	121.1	122.9	124.1	126.0	128.7	132.4
110°	137.3	139.2	140.1	142.8	146.6	149.6



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CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	154.1	155.5	156.8	159.7	163.2	167.0
115°	171.4	172.7	174.0	176.9	179.3	184.4
117.5°	188.6	189.8	191.1	194.2	195.8	201.6
120°	205.8	207.0	208.3	211.9	212.7	218.7
122.5°	223.2	224.1	225.5	229.8	229.9	235.7
125°	240.5	241.3	242.8	248.0	247.3	252.6
127.5°	258.0	258.4	260.2	262.9	264.8	269.2
130°	275.5	275.6	277.5	277.6	282.4	285.4
132.5°	293.1	292.7	294.9	292.2	299.9	301.3
135°	306.5	309.9	308.2	307.0	313.6	316.7
137.5°	319.6	322.2	321.2	321.7	326.7	331.7
140°	332.6	334.6	334.1	336.4	339.5	345.9
142.5°	345.6	346.9	347.0	350.9	351.9	359.4
145°	358.6	359.3	360.0	365.2	363.8	372.3
147.5°	371.5	371.6	372.8	379.5	375.2	384.2
150°	384.3	384.0	385.6	392.6	386.1	395.4
152.5°	397.2	396.3	398.5	400.3	396.2	405.8
155°	409.9	408.7	411.1	407.8	405.7	415.3
157.5°	417.6	421.0	418.8	414.7	414.4	423.9
160°	422.9	425.4	424.0	421.4	422.5	431.5
162.5°	427.9	429.8	429.0	427.9	429.8	438.2
165°	432.9	434.1	433.9	433.8	436.5	444.2
167.5°	437.8	438.5	438.7	439.3	442.4	449.2
170°	442.5	442.8	443.2	444.5	447.6	453.3
172.5°	447.2	447.2	447.8	449.2	452.0	456.5
175°	451.7	451.5	452.0	453.3	455.6	458.7
177.5°	456.0	455.9	456.1	457.0	458.4	460.0
180°	460.0	460.0	460.0	460.0	460.0	460.0

(END OF REPORT)