

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: 14770

Luminaire Tested: **SW-WB-1T8**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: 14770
Test Lab:
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: SW-WB-1T8
Description: DIRECT INDIRECT BAFFLED WALL MOUNT LUMINAIRE WITH WHITE INTERIOR AND
WHITE OPAL ACRYLIC LENS
Light Source: ONE OSRAM 32 WATT FLUORESCENT LAMP

FO32/35K. LUMEN RATING = 2950 LMS.

Ballast/Driver: -

Summary

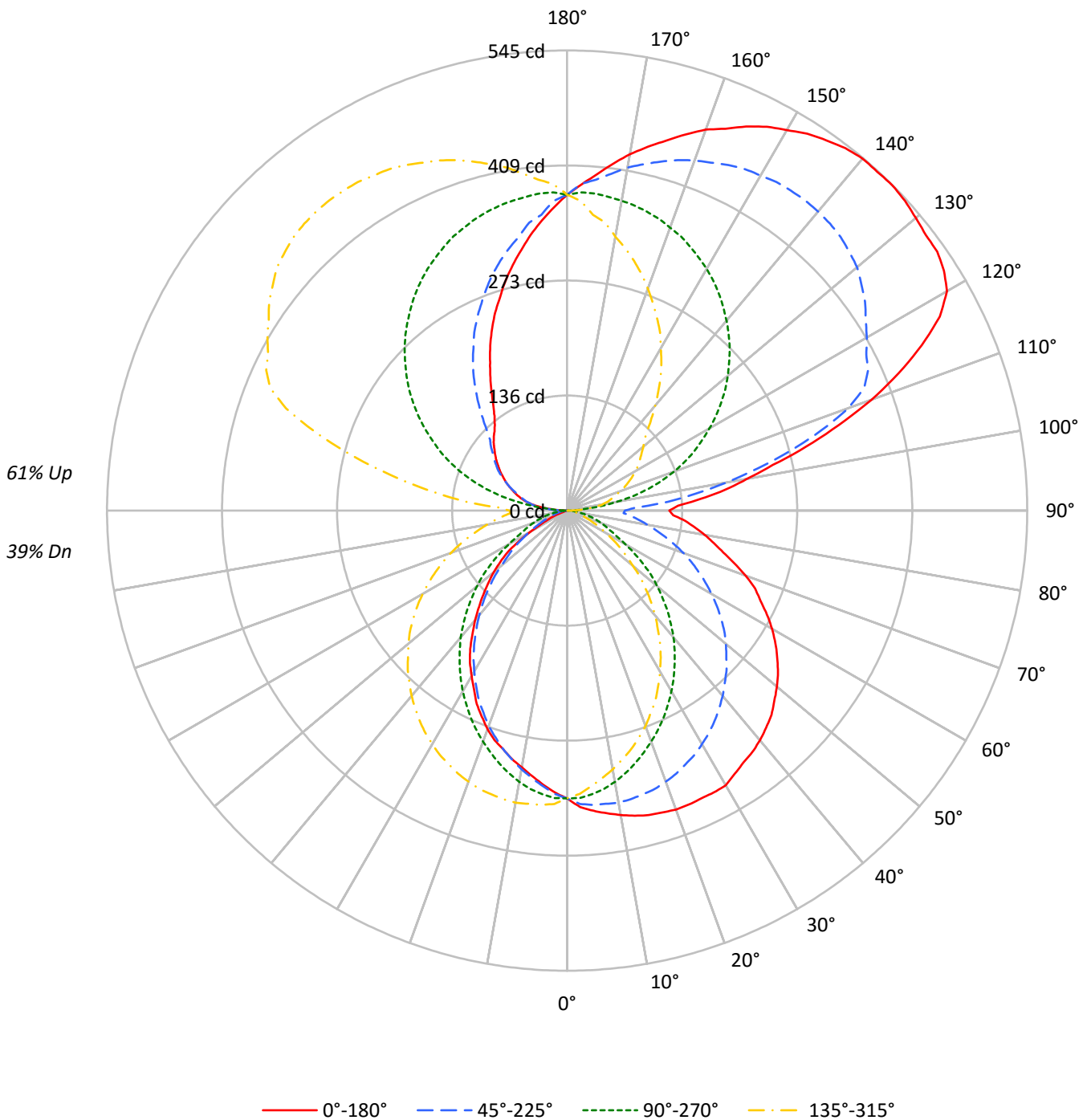
Lumens per Lamp: 2950 (1 lamp)
Luminaire Lumens: 2350.6 lumens
Efficiency: 79.7%
Efficacy: 75.8 lumens/watt
Spacing Criteria (0/90/45): 1.3 / 1.1 / 1.29
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 4' x H: 0.16')
CIE Type: Semi-Indirect

Input Watts (W): 31
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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CATALOG NUMBER: SW-WB-1T8

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	83	83	83	83	76	76	76	76	62	62	62	49	49	49	37	37	37	31
1	76	72	69	66	68	65	63	60	53	51	50	42	41	39	32	31	30	25
2	69	63	58	54	62	57	53	49	46	43	41	37	35	33	28	26	25	21
3	63	55	49	45	57	50	45	41	41	37	34	32	30	28	25	23	21	18
4	57	49	42	38	52	44	39	35	36	32	29	29	26	24	22	20	18	15
5	52	43	37	32	47	40	34	30	32	28	25	26	23	20	20	18	16	13
6	48	39	32	28	44	35	30	26	29	25	22	23	20	18	18	16	14	12
7	45	35	29	24	40	32	26	23	26	22	19	21	18	16	16	14	12	10
8	41	32	26	21	37	29	24	20	24	20	17	19	16	14	15	13	11	9
9	38	29	23	19	35	26	21	18	22	18	15	18	15	13	14	12	10	8
10	36	26	21	17	33	24	19	16	20	16	14	16	13	11	13	11	9	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1835	1835	1835	1835
5°	1921	1772	1754	1772
10°	1987	1687	1676	1687
15°	2058	1592	1613	1592
20°	2128	1493	1555	1493
25°	2192	1397	1475	1397
30°	2282	1296	1374	1296
35°	2328	1191	1280	1191
40°	2414	1086	1153	1086
45°	2504	970	1026	970
50°	2592	844	906	844
55°	2697	706	763	706
60°	2821	551	504	551
65°	2961	430	284	430
70°	3187	355	98	355
75°	3461	273	45	273
80°	4176	185	43	185
85°	5954	90	47	90



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	32.0	1.4	1.1
10°-20°	90.1	3.8	3.1
20°-30°	133.2	5.7	4.5
30°-40°	155.4	6.6	5.3
40°-50°	154.6	6.6	5.2
50°-60°	133.8	5.7	4.5
60°-70°	100.9	4.3	3.4
70°-80°	69.9	3.0	2.4
80°-90°	45.1	1.9	1.5
90°-100°	76.4	3.2	2.6
100°-110°	162.2	6.9	5.5
110°-120°	222.6	9.5	7.5
120°-130°	239.3	10.2	8.1
130°-140°	231.2	9.8	7.8
140°-150°	204.3	8.7	6.9
150°-160°	161.2	6.9	5.5
160°-170°	103.0	4.4	3.5
170°-180°	35.4	1.5	1.2
0°-30°	255.3	10.9	8.7
0°-40°	410.7	17.5	13.9
0°-60°	699.0	29.7	23.7
0°-90°	915.0	38.9	31.0
90°-120°	461.2	19.6	15.6
90°-150°	1136.0	48.3	38.5
90°-180°	1436.0	61.1	48.7
0°-180°	2350.6	100.0	79.7

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	341	341	341	341	341	
5°	357	337	326	337	357	34
15°	373	310	293	310	373	106
25°	376	270	253	270	376	174
35°	364	222	200	222	364	229
45°	342	168	140	168	342	264
55°	304	110	86	110	304	272
65°	252	57	24	57	252	251
75°	191	29	2	29	191	204
85°	140	7	1	7	140	119
90°	121	0	0	0	121	68
95°	159	20	19	20	159	142
105°	293	99	57	99	293	311
115°	463	166	80	166	463	455
125°	535	223	102	223	535	477
135°	545	272	123	272	545	421
145°	535	314	152	314	535	336
155°	502	345	216	345	502	232
165°	454	366	282	366	454	129
175°	399	377	345	377	399	39
180°	374	374	374	374	374	



TEST NUMBER: 14770
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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9	340.9
2.5°	351.5	346.0	347.7	343.1	340.7	335.0	335.9	329.5	334.2	329.5	335.9
5°	356.9	352.0	350.0	343.9	337.1	326.9	327.8	320.0	325.8	320.0	327.8
7.5°	361.6	356.4	350.3	343.1	332.7	319.4	319.4	313.0	317.1	313.0	319.4
10°	366.1	359.8	351.2	340.8	326.2	310.5	311.1	304.7	308.8	304.7	311.1
12.5°	370.2	362.8	350.0	337.6	318.7	301.2	301.9	296.9	301.5	296.9	301.9
15°	373.4	364.4	347.7	331.6	310.2	290.0	292.6	285.6	292.6	285.6	292.6
17.5°	374.8	365.9	345.7	326.9	300.9	279.6	281.9	277.3	285.4	277.3	281.9
20°	376.9	365.6	341.6	319.4	291.0	267.7	271.5	265.8	275.5	265.8	271.5
22.5°	376.9	364.7	337.3	311.6	281.1	256.2	259.1	253.6	264.0	253.6	259.1
25°	376.0	363.3	331.6	303.8	270.3	243.8	247.6	240.1	253.1	240.1	247.6
27.5°	376.3	360.7	326.4	295.2	258.7	228.8	233.7	223.9	238.9	223.9	233.7
30°	375.7	357.6	319.4	286.5	247.1	217.9	219.8	212.9	226.2	212.9	219.8
32.5°	369.6	353.5	312.5	277.0	234.8	204.0	206.3	198.2	214.1	198.2	206.3
35°	364.2	348.3	304.4	268.1	221.9	190.1	191.6	183.8	200.2	183.8	191.6
37.5°	360.4	342.0	295.5	255.7	209.0	173.7	176.3	168.5	184.1	168.5	176.3
40°	355.2	336.2	286.5	246.4	196.0	160.7	162.2	154.4	169.6	154.4	162.2
42.5°	348.9	328.1	276.4	233.2	181.6	145.1	147.1	137.0	154.4	137.0	147.1
45°	342.2	320.0	266.9	221.3	168.2	130.7	132.1	124.0	140.2	124.0	132.1
47.5°	333.0	311.6	255.7	209.2	153.5	115.4	118.0	110.5	126.6	110.5	118.0
50°	324.3	301.9	245.3	196.2	139.2	99.0	101.5	96.1	113.4	96.1	101.5
52.5°	314.8	292.6	234.6	183.8	125.1	86.0	88.3	85.1	99.5	85.1	88.3
55°	303.8	281.1	222.4	170.5	109.6	71.8	76.7	72.1	86.0	72.1	76.7
57.5°	292.6	269.5	210.3	157.5	94.5	58.6	64.0	57.7	68.3	57.7	64.0
60°	280.2	257.7	197.6	144.0	79.6	46.7	53.4	43.0	50.1	43.0	53.4
62.5°	266.9	246.4	184.9	133.0	66.2	39.5	43.3	32.0	34.3	32.0	43.3
65°	252.5	232.0	171.9	117.4	56.9	32.9	35.2	25.3	24.2	25.3	35.2
67.5°	240.9	218.7	159.3	104.4	49.6	26.8	27.7	19.6	14.7	19.6	27.7
70°	224.8	204.9	146.3	91.4	42.4	21.3	22.2	14.4	6.9	14.4	22.2
72.5°	207.5	191.3	133.0	79.3	35.5	15.0	17.0	10.7	2.9	10.7	17.0
75°	191.3	177.4	120.3	69.0	28.8	11.8	13.5	9.5	2.5	9.5	13.5
77.5°	178.0	162.4	107.9	59.1	22.8	7.7	10.7	7.4	2.2	7.4	10.7
80°	165.3	149.7	96.4	50.4	16.8	5.1	7.7	5.7	1.7	5.7	7.7
82.5°	152.3	139.3	86.0	43.8	11.5	2.2	5.5	4.3	1.4	4.3	5.5
85°	140.5	129.5	76.1	38.1	6.8	1.1	4.0	2.9	1.1	2.9	4.0
87.5°	125.5	117.4	66.9	31.1	2.1	0.5	2.0	2.0	1.0	2.0	2.0
90°	120.9	105.6	68.2	27.2	0.5	0.5	0.5	0.5	0.5	0.5	0.5
92.5°	131.3	134.1	80.8	65.5	6.7	4.8	12.1	2.0	5.5	2.0	12.1
95°	158.9	168.5	119.5	96.4	20.0	18.7	23.0	12.9	19.3	12.9	23.0
97.5°	188.7	199.4	153.7	133.9	39.7	27.1	34.8	24.8	30.8	24.8	34.8
100°	216.4	253.6	191.3	183.8	60.4	34.0	43.0	36.3	42.1	36.3	43.0
102.5°	249.6	274.7	231.1	193.3	80.5	37.2	49.3	41.5	50.4	41.5	49.3
105°	293.4	316.0	273.8	208.6	99.3	47.6	54.8	52.7	56.8	52.7	54.8
107.5°	337.3	359.3	315.4	224.2	117.4	54.8	60.5	58.2	62.6	58.2	60.5
110°	383.5	400.3	354.3	242.1	134.4	62.0	66.6	64.9	68.3	64.9	66.6



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
112.5°	425.1	438.3	380.9	259.4	150.7	69.8	73.8	71.2	74.2	71.2	73.8
115°	463.4	473.8	393.3	277.0	166.1	76.4	80.5	76.1	79.9	76.1	80.5
117.5°	497.5	491.4	399.4	291.7	179.9	84.5	87.1	82.2	85.1	82.2	87.1
120°	519.5	500.4	409.8	305.0	194.6	96.4	94.0	88.6	91.2	88.6	94.0
122.5°	529.2	507.0	419.2	324.3	208.9	109.9	99.5	94.3	96.4	94.3	99.5
125°	535.0	508.4	430.8	329.8	222.6	117.1	105.3	96.9	102.1	96.9	105.3
127.5°	535.6	513.9	439.5	339.9	235.9	139.1	111.0	105.3	107.3	105.3	111.0
130°	539.1	519.1	448.4	350.0	248.3	153.2	117.7	110.5	112.2	110.5	117.7
132.5°	542.8	522.0	453.4	359.3	260.3	167.6	123.8	115.7	118.0	115.7	123.8
135°	544.8	524.0	458.2	367.0	272.2	181.8	134.4	121.2	122.9	121.2	134.4
137.5°	544.0	526.1	460.8	374.6	283.3	197.1	147.7	126.6	127.3	126.6	147.7
140°	544.3	524.0	462.3	380.9	293.6	211.5	162.2	132.7	133.3	132.7	162.2
142.5°	541.0	519.7	463.1	386.1	303.7	224.8	177.4	141.7	141.4	141.7	177.4
145°	535.3	511.0	462.3	392.7	313.5	238.0	192.7	153.7	152.3	153.7	192.7
147.5°	529.2	508.7	461.4	395.3	322.3	244.4	207.7	160.4	166.5	160.4	207.7
150°	520.3	501.5	458.2	397.9	330.5	263.4	221.9	184.1	181.8	184.1	221.9
152.5°	512.5	492.9	456.0	397.3	337.7	275.5	238.0	200.0	197.6	200.0	238.0
155°	501.8	484.2	451.6	399.4	344.9	287.1	251.9	216.1	215.5	216.1	251.9
157.5°	489.4	474.9	446.1	401.1	351.6	298.9	265.5	233.2	232.5	233.2	265.5
160°	480.1	464.3	441.2	400.3	356.6	308.8	279.6	249.0	249.3	249.0	279.6
162.5°	467.2	453.4	435.2	399.4	362.2	319.1	293.2	265.1	264.6	265.1	293.2
165°	453.6	442.6	427.9	396.2	366.3	328.4	306.2	280.7	281.9	280.7	306.2
167.5°	441.2	425.1	420.1	392.5	369.8	337.9	318.0	295.8	297.8	295.8	318.0
170°	428.5	418.7	412.6	391.0	372.7	341.6	329.5	303.3	313.4	303.3	329.5
172.5°	414.1	405.5	402.5	387.6	374.7	354.6	343.9	325.8	329.5	325.8	343.9
175°	399.4	392.5	393.3	383.8	377.0	362.1	351.7	340.2	344.8	340.2	351.7
177.5°	386.4	380.6	387.3	379.1	377.2	367.6	367.0	354.3	359.3	354.3	367.0
180°	374.1	374.1	374.1	374.1	374.1	374.1	374.1	374.1	374.1	374.1	374.1



TEST NUMBER: 14770
 CATALOG NUMBER: SW-WB-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	340.9	340.9	340.9	340.9	340.9	340.9
2.5°	335.0	340.7	343.1	347.7	346.0	351.5
5°	326.9	337.1	343.9	350.0	352.0	356.9
7.5°	319.4	332.7	343.1	350.3	356.4	361.6
10°	310.5	326.2	340.8	351.2	359.8	366.1
12.5°	301.2	318.7	337.6	350.0	362.8	370.2
15°	290.0	310.2	331.6	347.7	364.4	373.4
17.5°	279.6	300.9	326.9	345.7	365.9	374.8
20°	267.7	291.0	319.4	341.6	365.6	376.9
22.5°	256.2	281.1	311.6	337.3	364.7	376.9
25°	243.8	270.3	303.8	331.6	363.3	376.0
27.5°	228.8	258.7	295.2	326.4	360.7	376.3
30°	217.9	247.1	286.5	319.4	357.6	375.7
32.5°	204.0	234.8	277.0	312.5	353.5	369.6
35°	190.1	221.9	268.1	304.4	348.3	364.2
37.5°	173.7	209.0	255.7	295.5	342.0	360.4
40°	160.7	196.0	246.4	286.5	336.2	355.2
42.5°	145.1	181.6	233.2	276.4	328.1	348.9
45°	130.7	168.2	221.3	266.9	320.0	342.2
47.5°	115.4	153.5	209.2	255.7	311.6	333.0
50°	99.0	139.2	196.2	245.3	301.9	324.3
52.5°	86.0	125.1	183.8	234.6	292.6	314.8
55°	71.8	109.6	170.5	222.4	281.1	303.8
57.5°	58.6	94.5	157.5	210.3	269.5	292.6
60°	46.7	79.6	144.0	197.6	257.7	280.2
62.5°	39.5	66.2	133.0	184.9	246.4	266.9
65°	32.9	56.9	117.4	171.9	232.0	252.5
67.5°	26.8	49.6	104.4	159.3	218.7	240.9
70°	21.3	42.4	91.4	146.3	204.9	224.8
72.5°	15.0	35.5	79.3	133.0	191.3	207.5
75°	11.8	28.8	69.0	120.3	177.4	191.3
77.5°	7.7	22.8	59.1	107.9	162.4	178.0
80°	5.1	16.8	50.4	96.4	149.7	165.3
82.5°	2.2	11.5	43.8	86.0	139.3	152.3
85°	1.1	6.8	38.1	76.1	129.5	140.5
87.5°	0.5	2.1	31.1	66.9	117.4	125.5
90°	0.5	0.5	27.2	68.2	105.6	120.9
92.5°	4.8	6.7	65.5	80.8	134.1	131.3
95°	18.7	20.0	96.4	119.5	168.5	158.9
97.5°	27.1	39.7	133.9	153.7	199.4	188.7
100°	34.0	60.4	183.8	191.3	253.6	216.4
102.5°	37.2	80.5	193.3	231.1	274.7	249.6
105°	47.6	99.3	208.6	273.8	316.0	293.4
107.5°	54.8	117.4	224.2	315.4	359.3	337.3
110°	62.0	134.4	242.1	354.3	400.3	383.5



TEST NUMBER: 14770
 CATALOG NUMBER: SW-WB-1T8

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	69.8	150.7	259.4	380.9	438.3	425.1
115°	76.4	166.1	277.0	393.3	473.8	463.4
117.5°	84.5	179.9	291.7	399.4	491.4	497.5
120°	96.4	194.6	305.0	409.8	500.4	519.5
122.5°	109.9	208.9	324.3	419.2	507.0	529.2
125°	117.1	222.6	329.8	430.8	508.4	535.0
127.5°	139.1	235.9	339.9	439.5	513.9	535.6
130°	153.2	248.3	350.0	448.4	519.1	539.1
132.5°	167.6	260.3	359.3	453.4	522.0	542.8
135°	181.8	272.2	367.0	458.2	524.0	544.8
137.5°	197.1	283.3	374.6	460.8	526.1	544.0
140°	211.5	293.6	380.9	462.3	524.0	544.3
142.5°	224.8	303.7	386.1	463.1	519.7	541.0
145°	238.0	313.5	392.7	462.3	511.0	535.3
147.5°	244.4	322.3	395.3	461.4	508.7	529.2
150°	263.4	330.5	397.9	458.2	501.5	520.3
152.5°	275.5	337.7	397.3	456.0	492.9	512.5
155°	287.1	344.9	399.4	451.6	484.2	501.8
157.5°	298.9	351.6	401.1	446.1	474.9	489.4
160°	308.8	356.6	400.3	441.2	464.3	480.1
162.5°	319.1	362.2	399.4	435.2	453.4	467.2
165°	328.4	366.3	396.2	427.9	442.6	453.6
167.5°	337.9	369.8	392.5	420.1	425.1	441.2
170°	341.6	372.7	391.0	412.6	418.7	428.5
172.5°	354.6	374.7	387.6	402.5	405.5	414.1
175°	362.1	377.0	383.8	393.3	392.5	399.4
177.5°	367.6	377.2	379.1	387.3	380.6	386.4
180°	374.1	374.1	374.1	374.1	374.1	374.1

(END OF REPORT)