

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: 1,704

Luminaire Tested: **JW-SM-1N5-1C-UNV-SU-WA-4**

Issue Date: 3/3/2020

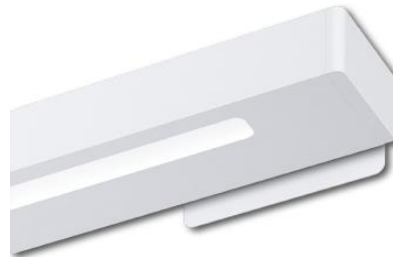
Test Information

Test Method: LM-41-14
Report Number: 1,704
Test Lab: TUV SUD America
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: CORELITE
Catalog Number: JW-SM-1N5-1C-UNV-SU-WA-4
Description: Jaylum Wall, Specular Optics, Clear Linear Prismatic Lens,
Fluorescent
Light Source: -
F28T5 fluorescent
Ballast/Driver: -

Summary

Lumens per Lamp: 2900 (1 lamp)
Luminaire Lumens: 2125.7 lumens
Efficiency: 73.3%
Efficacy: 72.8 lumens/watt
Spacing Criteria (0/90/45): 0.93 / 1.16 / 1.12
Luminous Opening: Rectangular (W 3.62' x L: 0.09' x H: 0')
CIE Type: General Diffuse

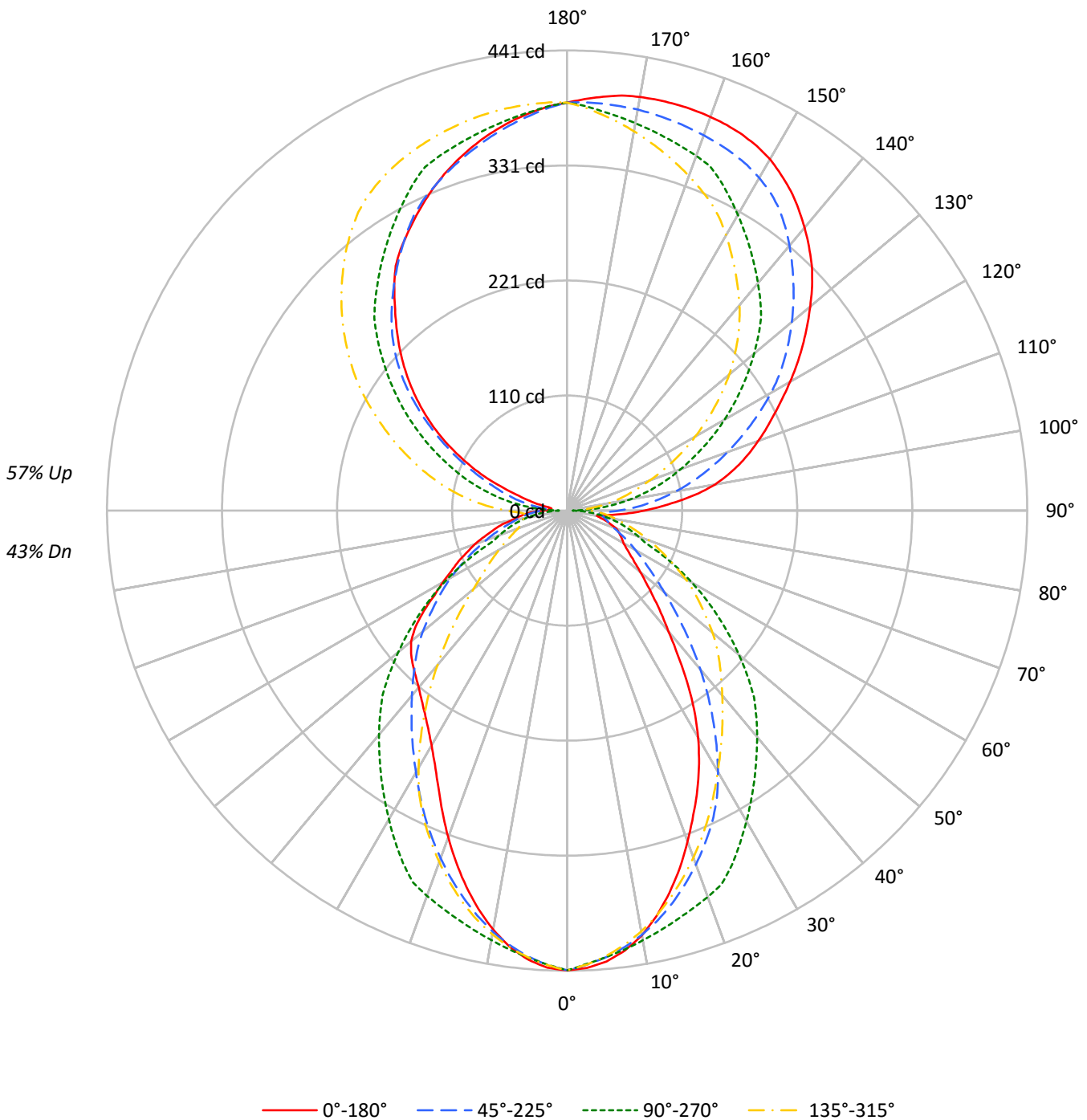
Input Watts (W): 29.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



TEST NUMBER: 1,704

CATALOG NUMBER: JW-SM-1N5-1C-UNV-SU-WA-4

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	77	77	77	77	71	71	71	71	58	58	58	47	47	47	36	36	36	32
1	70	67	64	62	64	61	59	57	51	49	47	41	40	39	32	31	30	26
2	64	59	54	51	58	54	50	47	45	42	39	36	34	32	28	27	26	22
3	59	52	47	42	53	48	43	39	40	36	33	32	30	28	25	24	22	19
4	54	46	40	36	49	42	37	33	35	32	29	29	26	24	23	21	19	17
5	49	41	35	31	45	38	33	29	32	28	25	26	23	21	21	19	17	15
6	46	37	31	27	42	34	29	25	29	25	22	24	21	18	19	17	15	13
7	42	33	28	24	39	31	26	22	26	22	19	21	19	16	17	15	14	12
8	39	30	25	21	36	28	23	20	24	20	17	20	17	15	16	14	12	10
9	37	28	22	19	33	26	21	18	22	18	15	18	15	13	15	13	11	9
10	34	25	20	17	31	24	19	16	20	16	14	17	14	12	14	12	10	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13918	13918	13918	13918
5°	13752	13619	13695	13635
10°	13254	13411	13084	13408
15°	12395	13278	12208	13258
20°	11342	13252	11201	13211
25°	10293	13043	10178	12983
30°	9155	12537	9469	12464
35°	7716	12074	9163	11985
40°	6214	11682	9126	11567
45°	5200	11316	9346	11173
50°	4497	10561	9598	10379
55°	4059	9715	9230	9506
60°	3949	8731	8687	8485
65°	4208	7490	8573	7176
70°	4600	6715	8700	6382
75°	4784	6859	8983	6615
80°	5275	7186	9878	7095
85°	16419	8191	14933	8554



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ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	40.5	1.9	1.4
10°-20°	109.0	5.1	3.8
20°-30°	150.7	7.1	5.2
30°-40°	160.9	7.6	5.5
40°-50°	149.7	7.0	5.2
50°-60°	122.3	5.8	4.2
60°-70°	86.0	4.0	3.0
70°-80°	57.1	2.7	2.0
80°-90°	39.4	1.9	1.4
90°-100°	56.3	2.6	1.9
100°-110°	103.1	4.8	3.6
110°-120°	150.7	7.1	5.2
120°-130°	190.5	9.0	6.6
130°-140°	208.1	9.8	7.2
140°-150°	197.7	9.3	6.8
150°-160°	162.0	7.6	5.6
160°-170°	105.3	5.0	3.6
170°-180°	36.7	1.7	1.3
0°-30°	300.2	14.1	10.4
0°-40°	461.1	21.7	15.9
0°-60°	733.1	34.5	25.3
0°-90°	915.6	43.1	31.6
90°-120°	310.0	14.6	10.7
90°-150°	906.2	42.6	31.2
90°-180°	1210.0	56.9	41.7
0°-180°	2125.7	100.0	73.3

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	441	441	441	441	441	
5°	434	430	432	430	434	41
15°	379	406	373	405	379	106
25°	295	374	292	372	295	135
35°	200	313	238	311	200	125
45°	116	253	209	250	116	91
55°	74	176	168	173	74	67
65°	56	100	115	96	56	56
75°	39	56	74	54	39	41
85°	45	23	41	24	45	34
90°	74	6	22	8	74	41
95°	108	33	17	35	108	96
105°	171	88	39	89	171	180
115°	219	144	103	144	219	218
125°	276	204	170	203	276	247
135°	332	263	229	261	332	255
145°	374	306	286	304	374	234
155°	397	348	326	347	397	183
165°	403	369	359	369	403	114
175°	398	384	383	384	398	38
180°	391	391	391	391	391	



TEST NUMBER: 1,704

CATALOG NUMBER: JW-SM-1N5-1C-UNV-SU-WA-4

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°	202.5°	225°
0°	440.6	440.6	440.6	440.6	440.6	440.6	440.6	440.6	440.6	440.6	440.6
2.5°	438.8	437.0	435.6	435.0	434.8	434.8	435.4	436.8	438.5	437.0	435.9
5°	433.7	430.9	429.6	429.4	429.5	429.2	428.4	428.9	431.9	429.4	429.0
7.5°	425.2	422.0	422.0	423.3	424.1	422.9	419.9	418.6	421.7	419.1	420.3
10°	413.2	410.2	412.8	416.6	418.1	415.4	409.5	405.5	407.9	405.9	409.8
12.5°	397.4	395.3	402.0	409.5	412.2	407.2	397.3	389.8	391.5	390.4	397.7
15°	379.0	377.9	389.5	401.9	406.0	398.5	383.7	372.4	373.3	373.0	384.2
17.5°	359.1	358.8	375.7	393.8	399.9	389.3	369.1	353.6	353.6	354.2	369.8
20°	337.4	338.6	360.9	385.1	394.2	379.8	353.9	334.1	333.2	334.7	354.6
22.5°	315.9	318.1	345.2	374.5	387.3	369.9	338.1	314.3	312.4	314.9	339.0
25°	295.3	297.8	329.2	361.0	374.2	357.3	321.8	295.0	292.0	295.5	322.9
27.5°	273.8	277.2	310.8	345.3	359.0	341.6	305.0	277.3	274.2	277.8	306.2
30°	251.0	255.4	289.2	328.0	343.7	324.6	288.6	262.1	259.6	262.5	289.7
32.5°	226.6	232.8	266.3	310.0	328.3	307.6	273.4	249.2	247.8	249.4	274.2
35°	200.1	208.0	243.3	291.8	313.1	291.1	258.9	238.1	237.6	238.3	259.5
37.5°	173.8	183.7	220.5	273.8	297.8	275.2	244.7	228.3	229.0	228.3	245.0
40°	150.7	162.4	198.5	256.0	283.3	260.0	231.3	219.6	221.3	219.3	231.4
42.5°	133.0	143.2	177.1	238.0	268.3	245.4	218.6	211.9	214.9	211.4	218.3
45°	116.4	126.0	156.6	219.6	253.3	231.5	206.6	205.1	209.2	204.3	205.9
47.5°	103.0	109.9	138.0	200.2	234.3	217.6	194.7	198.3	202.9	197.1	193.9
50°	91.5	96.9	121.4	180.6	214.9	202.3	181.9	190.6	195.3	188.8	180.8
52.5°	81.6	85.8	107.0	161.4	195.6	185.6	168.1	179.9	183.2	177.5	166.7
55°	73.7	76.3	94.9	143.0	176.4	168.9	155.5	164.1	167.6	161.1	153.4
57.5°	67.2	68.6	84.6	125.2	157.2	152.6	143.8	147.6	150.6	144.9	141.1
60°	62.5	62.7	75.6	108.2	138.2	136.6	130.9	132.1	137.5	131.2	128.6
62.5°	59.3	58.0	67.3	91.7	119.2	120.9	117.5	117.1	124.7	118.7	116.2
65°	56.3	54.1	59.6	76.2	100.2	105.5	105.2	103.0	114.7	107.6	104.1
67.5°	53.3	50.5	52.7	63.5	81.3	90.6	94.0	89.9	103.2	97.4	92.7
70°	49.8	47.1	47.1	55.3	72.7	77.3	83.6	78.2	94.2	88.2	82.5
72.5°	43.9	43.7	43.3	49.4	64.5	67.1	73.7	67.4	83.3	79.0	73.1
75°	39.2	40.5	40.5	43.7	56.2	59.2	64.1	57.8	73.6	70.2	63.9
77.5°	32.8	39.1	38.0	38.0	47.9	51.9	55.4	49.6	65.5	63.1	55.6
80°	29.0	39.6	35.7	32.4	39.5	44.6	48.2	43.2	54.3	55.8	48.8
82.5°	33.6	41.1	33.3	26.6	31.1	37.4	41.6	38.4	47.4	48.7	42.7
85°	45.3	43.7	31.0	20.9	22.6	30.3	35.2	34.4	41.2	42.0	36.7
87.5°	59.4	55.0	36.6	17.9	14.1	23.1	28.8	29.7	33.6	35.4	30.6
90°	73.9	69.4	49.6	24.7	5.5	16.0	22.5	24.5	21.6	29.0	24.6
92.5°	90.0	83.9	63.8	39.2	19.4	15.9	17.4	19.2	17.5	22.7	19.6
95°	107.8	98.8	77.7	53.5	33.3	24.9	19.6	16.3	17.3	18.9	21.6
97.5°	127.0	113.6	91.8	67.9	47.1	36.6	29.8	20.8	15.0	22.0	31.2
100°	143.8	128.3	105.9	82.3	60.9	48.2	40.0	26.4	17.9	26.1	40.8
102.5°	157.8	142.9	120.0	96.6	74.6	59.9	50.3	33.4	28.8	30.9	50.5
105°	170.6	157.2	134.2	111.0	88.3	71.6	60.9	43.8	39.0	37.4	60.5
107.5°	182.8	170.2	148.6	125.5	102.0	83.3	71.9	58.0	51.0	46.1	71.0
110°	194.9	182.2	163.4	140.4	115.6	95.2	84.0	73.4	67.4	56.8	82.9



TEST NUMBER: 1,704

CATALOG NUMBER: JW-SM-1N5-1C-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°	206.9	194.6	178.5	155.7	129.3	107.9	97.6	89.6	86.2	69.8	97.0
115°	219.2	207.9	194.0	171.3	144.2	121.8	112.1	105.9	103.4	84.8	112.3
117.5°	232.5	222.1	209.7	186.9	159.2	136.5	126.8	121.0	120.2	101.4	127.8
120°	246.7	237.0	225.8	202.4	174.1	151.5	141.6	135.8	137.7	120.1	143.9
122.5°	261.1	252.5	240.8	218.0	189.1	166.6	156.8	150.8	154.0	139.8	160.5
125°	275.5	268.4	254.5	233.5	204.0	181.8	172.2	165.7	169.7	159.5	177.2
127.5°	289.7	284.6	267.9	249.0	218.9	197.0	187.7	180.8	185.0	179.5	193.9
130°	304.1	298.2	281.2	263.8	233.8	211.9	202.8	196.0	200.0	198.1	209.5
132.5°	318.5	309.9	294.1	276.9	248.7	226.8	217.0	211.3	214.6	214.6	223.6
135°	331.7	321.1	306.7	288.1	263.0	240.7	230.9	226.7	228.7	230.3	236.8
137.5°	343.1	332.1	319.2	298.5	273.9	253.1	244.4	241.9	242.5	245.6	249.1
140°	354.0	342.6	331.5	308.8	284.5	264.9	257.0	256.3	256.8	259.8	261.0
142.5°	364.3	352.8	343.1	318.9	295.2	276.7	268.8	269.7	272.2	272.5	272.6
145°	373.8	361.9	353.8	328.9	305.9	288.5	280.7	280.9	286.5	283.1	284.2
147.5°	381.7	370.1	362.0	338.7	316.6	300.4	292.6	290.2	297.0	292.3	295.8
150°	388.8	376.6	368.2	348.4	327.3	312.3	304.7	299.7	306.3	301.6	307.4
152.5°	393.8	381.8	373.3	357.7	337.9	323.7	316.2	309.5	316.0	311.2	318.4
155°	397.4	386.0	377.2	365.4	348.3	334.1	325.8	319.2	325.5	320.6	327.6
157.5°	399.9	389.1	380.2	370.3	357.4	343.0	333.6	328.6	334.7	329.7	335.1
160°	401.5	391.6	382.7	373.2	361.8	350.0	341.2	337.6	343.4	338.5	342.5
162.5°	402.6	393.5	385.0	375.9	365.6	355.8	348.6	346.1	351.5	346.8	349.6
165°	403.1	395.0	387.1	378.5	369.4	361.2	355.7	354.2	359.1	354.8	356.5
167.5°	403.0	396.0	388.8	381.0	373.2	366.6	362.5	361.9	366.2	362.3	363.2
170°	402.5	396.6	390.2	383.3	377.0	372.0	369.1	369.1	372.6	369.4	369.5
172.5°	401.2	396.2	390.8	385.5	380.7	377.1	375.3	375.6	378.4	375.8	375.5
175°	398.2	395.0	391.4	387.8	384.2	382.0	381.1	381.6	383.4	381.7	381.2
177.5°	394.7	393.3	391.6	389.9	388.2	387.0	386.6	387.0	387.9	387.0	386.6
180°	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0	391.0



TEST NUMBER: 1,704

CATALOG NUMBER: JW-SM-1N5-1C-UNV-SU-WA-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
0°	440.6	440.6	440.6	440.6	440.6	440.6
2.5°	435.6	435.5	435.6	436.0	437.2	438.8
5°	429.6	430.0	429.8	429.9	431.0	433.7
7.5°	423.2	424.2	423.3	422.0	422.0	425.2
10°	415.5	418.0	416.3	412.5	410.0	413.2
12.5°	407.3	411.8	408.9	401.3	394.9	397.4
15°	398.5	405.4	400.8	388.3	377.1	379.0
17.5°	389.4	399.1	392.2	373.8	357.8	359.1
20°	380.0	393.0	382.8	358.4	337.6	337.4
22.5°	370.3	385.8	371.6	342.2	316.6	315.9
25°	357.8	372.5	357.7	325.7	295.9	295.3
27.5°	342.1	357.2	341.6	306.9	275.1	273.8
30°	325.0	341.7	324.0	284.9	253.2	251.0
32.5°	307.9	326.2	305.6	261.8	229.9	226.6
35°	291.3	310.8	286.8	238.6	204.9	200.1
37.5°	275.4	295.3	268.0	215.7	181.0	173.8
40°	260.1	280.5	249.4	193.4	159.9	150.7
42.5°	245.6	265.3	230.6	172.2	140.6	133.0
45°	231.6	250.1	211.4	152.7	123.9	116.4
47.5°	217.7	230.8	191.9	134.1	108.7	103.0
50°	202.2	211.2	172.6	117.0	96.0	91.5
52.5°	185.4	191.8	154.2	103.7	85.2	81.6
55°	168.5	172.6	136.9	93.3	76.2	73.7
57.5°	151.9	153.4	120.4	83.9	68.9	67.2
60°	135.6	134.3	104.5	75.4	63.5	62.5
62.5°	119.6	115.2	89.1	67.8	59.2	59.3
65°	104.0	96.0	74.7	61.0	55.8	56.3
67.5°	88.9	76.9	63.3	54.9	52.6	53.3
70°	75.6	69.1	56.4	50.0	49.5	49.8
72.5°	65.5	61.6	51.8	47.1	46.5	43.9
75°	57.9	54.2	47.3	45.2	43.6	39.2
77.5°	50.9	46.6	42.8	43.6	42.6	32.8
80°	43.9	39.0	38.3	42.0	43.5	29.0
82.5°	37.0	31.3	33.8	40.5	45.3	33.6
85°	30.1	23.6	29.2	39.0	48.2	45.3
87.5°	23.2	15.8	27.1	44.9	59.8	59.4
90°	16.3	8.0	34.0	58.0	74.5	73.9
92.5°	16.7	21.6	47.7	72.0	89.5	90.0
95°	26.5	35.1	61.3	86.0	104.5	107.8
97.5°	39.1	48.6	74.9	99.8	119.0	127.0
100°	51.6	62.2	88.5	113.5	133.1	143.8
102.5°	64.1	75.6	102.1	127.0	147.1	157.8
105°	76.7	89.1	115.8	140.4	160.6	170.6
107.5°	89.3	102.6	129.5	154.0	172.9	182.8
110°	102.2	116.0	143.6	168.1	184.5	194.9



TEST NUMBER: 1,704

CATALOG NUMBER: JW-SM-1N5-1C-UNV-SU-WA-4

CANDELA DISTRIBUTION (continued):

	247.5°	270°	292.5°	315°	337.5°	360°
112.5°	115.5	129.6	158.1	182.4	196.5	206.9
115°	129.6	144.3	172.9	196.9	209.4	219.2
117.5°	144.0	159.0	187.5	211.7	223.1	232.5
120°	158.5	173.8	202.1	227.0	237.7	246.7
122.5°	173.1	188.5	216.6	241.4	253.0	261.1
125°	187.7	203.2	231.0	254.8	268.8	275.5
127.5°	202.5	217.9	245.2	267.9	284.7	289.7
130°	217.0	232.6	258.9	280.9	298.4	304.1
132.5°	231.5	247.3	271.2	293.4	310.2	318.5
135°	244.9	261.4	282.0	305.4	321.2	331.7
137.5°	256.9	272.3	292.3	317.3	331.9	343.1
140°	268.3	283.0	302.7	328.7	342.3	354.0
142.5°	279.8	293.8	313.0	339.3	352.1	364.3
145°	291.3	304.5	323.2	349.0	360.8	373.8
147.5°	303.0	315.3	333.4	356.7	368.4	381.7
150°	314.5	326.0	343.5	362.6	374.4	388.8
152.5°	325.6	336.7	353.2	367.9	379.3	393.8
155°	335.7	347.2	361.3	372.3	383.3	397.4
157.5°	344.3	356.3	366.8	376.1	386.6	399.9
160°	351.0	360.9	370.2	379.4	389.4	401.5
162.5°	356.5	364.9	373.6	382.4	391.7	402.6
165°	361.8	368.8	376.7	385.0	393.6	403.1
167.5°	367.0	372.8	379.6	387.3	395.0	403.0
170°	372.2	376.6	382.4	389.1	396.0	402.5
172.5°	377.2	380.5	384.9	390.2	395.8	401.2
175°	382.0	384.1	387.4	391.0	394.8	398.2
177.5°	387.0	388.1	389.8	391.5	393.2	394.7
180°	391.0	391.0	391.0	391.0	391.0	391.0

(END OF REPORT)